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TWENTY-FIRST ANNUAL COAL REPORT

OF THE

Illinois Bureau of Labor Statistics

1902

40487

ALSO THE

FOURTH ANNUAL REPORT

OF THE

Illinois Free Employment Offices

FOR THE

YEAR ENDED OCT. 1, 1902

DAVID ROSS, *Secretary*, Springfield.

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CHICAGO.

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STATE OF ILLINOIS,
OFFICE OF THE BUREAU OF LABOR STATISTICS,
SPRINGFIELD, Jan. 1, 1903.

HON. RICHARD YATES, *Governor of Illinois*:

SIR:—I have the honor, on behalf of the Board of Commissioners of Labor, to submit herewith the twenty-first annual report of the coal industry of the State for the year ended July 1, 1902, together with the fourth annual report of the Illinois Free Employment offices.

Very respectfully,

DAVID ROSS,

Secretary.

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TWENTY-FIRST ANNUAL REPORT.

STATISTICS OF COAL IN ILLINOIS FOR THE YEAR ENDED JUNE 30, 1902.

History records that the first discovery of coal in the United States was made in Illinois. In 1679, two and one-fourth centuries ago, Father Hennepin, one of the early explorers of the Mississippi valley, found coal not far from where the city of Ottawa is now situated; however, there is no probability that any mines were opened in that locality until a long time after mining of coal was begun in the southern part of the State.

The area of the coal field in Illinois covers substantially 35,000 square miles, or about 63 per cent of the area of the State; its northern boundary is from the north line of Grundy county west to the Mississippi river, several miles north of Rock Island. Its western boundary extends south along the river to the north line of Henderson county, when it leaves the river, inclining inland from 10 to 30 miles to the southern part of Jackson county.

The coal measures of the State consist of 16 coal seams ranging from one to nine feet in thickness; these are numbered consecutively from the bottom upwards. The records of the early history of coal mining in Illinois are very meager; the first record to be found is that coal was mined in Jackson county in 1810; the locality was on the Big Muddy river and was worked by drift along the outcrop in the bluffs; a flat-boat was loaded with coal at this place and shipped to New Orleans. Again, in 1832, several boat loads were sent from the same vicinity to the same market. We find another record, where, in 1833, 150,000 bushels (6,000 tons) of coal were mined in St. Clair county, and hauled by wagons to St. Louis. The United

States census of 1840 records that coal was mined in 19 counties of Illinois; the product was 424,187 bushels (16,968 tons), and 152 men were employed in the industry. From 1840 to 1860, a period of twenty years, we are without any general or special data of coal mining in the State; however, some scattering statistics are to be found in the geological reports of the State.

The census of 1850 seems to have omitted the coal industry entirely, except that it is included with all kinds of mining, stone, lead, etc. In the census of 1860 the output of coal in the State is given as 14,200,000 bushels (568,000 tons), giving employment to 1,049 men.

No other data is to be found of the progress of mining in the State until the census of 1870; here the number of counties producing coal is given as 37, with an output of 2,624,163 tons for the year, and 6,301 men employed. The next record is the census of 1880. This gives the output for the year as 6,089,514 tons, the product of 46 counties and employing of 16,301 men.

The constitutional convention of 1870 incorporated into the Constitution the first provision authorizing the General Assembly to pass necessary laws for the protection of operatives in mines.

The first mining law enacted under the provision of the Constitution was by the Twenty-seventh General Assembly, 1871, approved March 27, 1872. This law, however, provided for county inspectors only and that reports be made to county boards. Amendments were made to this law in different forms, by the 28th, 30th and 31st General Assemblies. However, none of these amendments provided for making reports to any State officer. The Thirty-third General Assembly (1883) amended the mining law by dividing the State into five inspection districts, and provided for the appointment by the Governor of a State inspector for each district, also providing for the making of annual reports to the Bureau of Labor Statistics.

From these published reports, and from other reliable data, the following statistical summary is presented, covering a period of 63 years, giving the vital information pertinent to a brief history of coal mining in Illinois.

Years.	Mines.	Men.	Tons.	Days.	FATAL ACCIDENTS.			NON-FATAL.	
					No.	Widows.	Children	No.	Days lost.
1840	.....	152	16,968	.....	.....	.....	.....	.....	.....
1850	.....	.....	.....	.....	.....	.....	.....	.....	.....
1860	.....	1,049	568,000	.....	.....	.....	.....	.....	.....
1870	322	6,301	2,624,163	.....	.....	.....	.....	.....	.....
1880	590	16,301	6,089,514	.....	.....	.....	.....	.....	.....
1882	704	19,420	9,115,653	245	40	.....	.....	50	.....
1883	639	23,939	12,123,456	273	*134	39	92	231	.....
1884	741	25,575	12,208,075	200	46	22	65	197	.....
1885	778	25,946	11,834,459	225	39	17	54	176	.....
1886	787	25,846	11,175,241	206	52	30	76	171	.....
1887	801	26,804	12,423,066	213	41	22	77	180	24
1888	822	29,410	14,328,181	221	55	28	89	179	44
1889	854	30,076	14,017,298	212	42	22	86	201	47
1890	936	28,574	15,274,727	204	53	33	75	294	39
1891	918	32,951	15,660,698	216	60	37	112	367	48
1892	839	33,632	17,062,276	220	57	25	63	370	46
1893	788	35,390	19,949,564	230	69	32	106	403	44
1894	836	38,477	17,133,576	183	72	41	114	521	38
1895	874	38,630	17,735,864	182	75	42	111	605	36
1896	901	37,057	19,786,626	186	77	44	155	672	35
1897	853	33,788	20,072,758	186	69	46	147	518	37
1898	881	35,026	18,599,299	175	75	45	112	438	38
1899	889	36,991	23,434,415	206	84	46	155	597	42
1900	920	39,384	25,153,929	214	94	53	136	611	40
1901	915	44,145	26,635,319	205	99	55	139	†422	53
1902	915	46,005	30,021,300	210	99	59	154	†406	60
Totals.	.....	.....	.....	.....	1,432	738	2,119	7,609	.....

* In the Diamond mine at Braidwood 69 men were drowned, and ten men were killed by an explosion at Coulterville.

† Number of men injured so as to lose a month or more of time. Previous years all men losing one week or more of time were reported.

Briefly reviewing the foregoing statement, it will be seen that for the first 20 years the number of miners employed in the industry did not exceed, on an average, more than 788 men each year. During the next decade, although we have only the record of one year, 1870, it may be fairly estimated that the industry made rapid progress, as the number of mines for this year is given as 322, number of miners, 6,301, with a total output of 2,624,163 tons. For the next

ten years, to 1880, the increase was in still greater proportion; the number of mines increased 83 per cent, the number of men employed, 159 per cent, and the number of tons produced, 132 per cent.

For the year 1881 there is no data extant of the progress of the industry, except the broken or irregular reports of the few county inspectors. These reports have never been compiled.

For the year ending July 1, 1882, statistics were obtained from 43 counties, showing the increase over 1880 to be 19 per cent in the number of mines; 19 per cent in the number of men employed, and 50 per cent in the tons produced.

For the next 20 years, 1883 to 1902, inclusive, a complete history of coal mining in this State, in all its detailed operations, has been officially reported through the State inspectors and recorded in the annual coal reports published by this bureau.

Recent developments have served to direct public attention to the importance of the coal mining industry as a factor necessary to the welfare and progress of the nation. Our people are profoundly impressed with the value of the services rendered by the mine workers, and are now more than ever before willing to aid them in the matter of securing fair treatment and adequate compensation. The recent apprehension of a possible fuel famine was caused not so much by the suspension in the anthracite fields of Pennsylvania—that only aggravated the situation—so much as by the unprecedented and rapidly increasing demands of the great manufacturing concerns of the country. Had it not been for this fact the withdrawal of 25,000,000 tons of anthracite coal, while it no doubt would operate to advance values, could not have caused any serious public inconvenience. The last few years have wrought an industrial revolution. Foreign competitors, fearing the loss of markets, have sent commissions here for the purpose of studying American methods of production. There is scarcely an industrial line, including coal, in which the United States does not now excel.

The impetus in this direction during the past decade is without precedent anywhere. Our attitude in this respect can be only partially explained by the fact that while we represent, in point of population, but 5 per cent of the world's inhabitants, 34 per cent of all the goods used by a billion and a half of people are now manufactured in the United States.

In certain lines the labor of one American is equal to more than that of four Europeans. The mills at Homestead last year, employing 4,000 men, produced three times more steel than the Krupp mills of Germany employing 15,000 men. This is but one of the many results of present day methods of production.

If the average citizen would only consider what these extraordinary demands upon the mining properties of this and other states mean, there would be less frenzied declamation against the alleged restrictions of trade unions, coupled as it frequently is with indiscriminate charges of conspiracy on the part of railroads and coal corporations.

Notwithstanding the suspension of the anthracite mines, in addition to the increased demands of multiplying manufacturing establishments, the substantial interests of the country were at no time seriously imperiled. The one danger that menaced the nation's welfare was the fear, which fortunately proved unfounded, that the soft-coal miners would cease operations out of sympathy with their eastern craftsmen. To the credit of the organization and its officials, aided by the timely intervention of President Roosevelt, the nation was spared the affliction of a coal shortage, and its people received with pride and acclamation the assurance of the honor and integrity of our mine workers expressed in their refusal to violate any of the terms or conditions of a mutual agreement. This assertion of respect for a wage contract ought to remove the last vestige of opposition to recognizing the union, as there is, in fact, no other agency through which this form of agreement as to wages and other conditions of employment can be reached. Sufficient interest has already been created to require both factors in production to unite and co-operate, and the employer who occasions suffering or public hardship because of his refusal to recognize his employes as an organized body is not only recreant to the requirements of modern citizenship, but a positive menace to the present and future interests of industrial society.

The following is a condensed statement of the operations in the coal industry for the year:

SUMMARY FOR THE YEAR ENDED JUNE 30, 1902.

Number of counties producing coal.....	54
Number of mines and openings of all kinds.....	915
New mines or old mines re-opened during the year.....	111
Mines closed or abandoned since last report.....	111
Total output of all mines in tons of 2,000 pounds.....	30,021,300
Number of shipping mines.....	332

Total output of shipping mines, tons.....	28,824,750
Number of mines in local trade only.....	583
Output of local mines, tons.....	1,196,550
Total tons of lump coal.....	15,041,673
Total tons of other grades.....	14,979,627
Total tons shipped.....	25,680,542
Tons supplied to locomotives at the mines.....	968,284
Tons sold to local trade.....	2,143,512
Tons consumed (or wasted)—the plant.....	1,235,235
Average days of active operation for shipping mines.....	210.2
Average days of active operation for all mines.....	179.6
Average value per ton, all grades, at the mines.....	\$0.942
Average value per ton of lump coal at the mine.....	\$1.173
Average value per ton of other grades.....	\$0.709
Aggregate home value of total product.....	\$28,272,050
Number of mines in which mining machines are used.....	6 ⁴
Number of mining machines in use.....	464
Number of tons undercut by machines.....	6,497,123
Number of tons mined by hand.....	23,524,177
Average number of miners employed during the year.....	32,875
Average number of other employes.....	13,130
Total employes.....	46,005
Number of men at work under ground.....	41,518
Number at work on surface.....	4,487
Average price paid per gross ton for hand mining, shipping mines.....	\$0.5635
Average price paid per gross ton for machine mining.....	\$0.4201
Number kegs of blasting powder used.....	637,448
Number of men accidentally killed.....	99
Number of wives made widows.....	59
Number of children left fatherless.....	154
Number of men injured so as to lose a month or more of time.....	406
Number of gross tons mined to each life lost.....	303,245
Number of employes to each life lost.....	465
Number of gross tons mined to each man injured.....	73,944
Number of employes to each man injured.....	113
Number of mines using steam boilers.....	436
Number of steam boilers in use at the mines.....	1,175

The number of mines reported is 915, the same as last year; the total tons produced 30,021,300, an increase of 3,385,981 tons.

The number of men employed in and about the mines was 46,005, being an increase of 1,862 men over last year, and 6,621 more than were employed during the year 1900.

The average number of days for the commercial mines was 210; this is an increase of six days over last year.

In the following table is presented the total number of mines, men and tons, both shipping and local, for the year, by districts:

CLASSIFICATION OF MINES.

TABLE 1.—*Mines, Men and Tons of Shipping and Local Mines, by Districts.*

DISTRICT.	TOTAL.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	77	8,035	3,729,724	33	7,646	3,540,698	44	389	189,026
Second	176	6,583	3,104,516	25	5,789	2,852,589	151	794	251,927
Third	241	4,268	2,413,463	56	3,372	2,064,379	185	896	349,084
Fourth	84	5,679	3,939,864	34	5,226	3,757,201	50	453	182,663
Fifth	99	7,564	6,213,336	46	7,306	6,140,222	53	258	73,164
Sixth	111	7,929	6,241,847	80	7,764	6,162,466	31	165	79,381
Seventh	127	5,947	4,378,500	58	5,704	4,307,195	69	243	71,305
The State	915	46,005	30,021,300	332	42,807	28,824,750	583	3,198	1,196,550

The total number of mines is the same this year as last; the shipping mines have increased by one and the local mines decreased one.

The percentages of mines, men and tons are shown in the next table:

TABLE 2.—*Percentages of Mines, Men and Tons of Shipping and Local Mines, by Districts.*

DISTRICT.	SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First	42.86	95.19	94.93	57.14	4.84	5.07
Second	14.20	87.94	91.89	85.80	12.06	8.11
Third	23.24	79.01	85.54	76.76	20.99	14.46
Fourth	40.48	92.02	95.36	59.52	7.98	4.64
Fifth	46.46	96.59	98.82	53.54	3.41	1.18
Sixth	72.07	97.92	98.73	27.93	2.08	1.27
Seventh	45.67	95.91	98.37	54.33	4.09	1.63
The State	36.28	93.05	96.01	63.72	6.95	3.99

The difference in these percentages from last year is very slight; the shipping mines show a small increase.

The table following presents the percentages of the tonnage of shipping mines for a series of six years:

TABLE 3.—*Percentages of the Tonnage of Shipping Mines of the State for a Series of Six Years, by Districts,*

Year.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1902	94.93	91.89	85.54	95.36	98.82	98.73	98.37	96.01
1901	96.68	89.38	85.98	94.65	98.65	98.64	97.63	95.84
1900	95.81	89.14	87.18	95.47	98.39	98.84	96.47	95.64
1899	94.73	92.53	79.93	95.43	98.81	98.57	98.52	96.15
1898	91.35	88.61	78.59	93.69	99.12	98.48	98.11	94.93
1897	97.29	92.99	78.91	95.20	99.32	98.55	97.82	96.53

It will be noticed that, while there has been some variation in the different districts, the product of the State shows but little change.

The following table is a grouping of the mines by tonnage:

TABLE 4.—*Grouping of Mines by Tonnage and Districts.*

DISTRICT.	TONNAGE OF MINES PRODUCING—											
	Under 1,000.		1,000 and under 10,000.		10,000 and under 50,000.		50,000 and under 100,000.		100,000 and under 200,000.		200,000 and over.	
	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.	No.	Tons.
First	16	10,770	28	87,391	9	277,440	7	493,774	13	1,888,381	4	971,963
Second ...	79	50,379	68	186,604	14	172,137	3	95,507	5	712,707	7	1,887,182
Third	106	53,162	75	218,037	47	1,072,116	8	476,314	5	593,834	....	.....
Fourth....	20	10,657	29	105,292	13	233,449	9	758,164	7	925,846	6	1,906,456
Fifth.....	36	8,221	15	34,907	7	147,397	12	962,234	19	2,607,943	10	2,452,684
Sixth	9	7,449	23	76,201	35	1,219,551	21	1,451,026	14	1,890,697	6	1,606,923
Seventh ..	48	20,420	25	55,165	24	572,800	16	1,139,331	9	1,314,130	5	1,276,654
The State.	314	161,058	263	763,597	152	3,694,890	76	5,376,350	72	9,923,538	38	10,101,867

Considerable change will be observed in this classification from that of last year. The mines producing less than 10,000 tons have decreased by 44; those of 50,000 and under 100,000 are three less than last year.

The increase in mines that produced 10,000 and under 50,000 tons has been 28; those producing 100,000 tons 14, and mines that produced over 200,000 tons 5.

The table following presents this class of mines in a different form:

TABLE 5.—*Specified Classes of Mines with Percentages of Total Mines and Total Tonnage.*

MINES PRODUCING—	No. of Mines.	Output.	PERCENTAGES.	
			Mines.	Tonnage
Less than 1,000 tons.....	314	161,058	34.31	0.05
One thousand and less than 10,000 tons	263	763,597	28.74	2.54
Ten thousand and less than 50,000 tons.....	152	3,694,890	16.61	12.33
Fifty thousand and less than 100,000 tons	76	5,376,350	8.31	17.90
One hundred thousand and less than 200,000.....	72	9,923,535	7.88	33.55
Two hundred thousand tons and over	38	10,101,867	4.15	33.63
Totals.....	915	30,021,300	100.00	100.00

Here it is shown that the mines producing 50,000 tons and over, constituting 20 per cent of the mines, furnished 85 per cent of the total product. The mines producing 200,000 tons and over, while only 4 per cent of the total number, show an output of 34 per cent of the tonnage.

The number of mines thus arranged is presented in the following table, for a series of 20 years:

TABLE 6.—*Number of Mines in Specified Groups of Tonnage for a Series of Twenty Years.*

YEAR.	NUMBER OF MINES PRODUCING—						Total mines.
	Under 1,000 tons.	1,000 and under 10,000 tons	10,000 and under 50,000 tons	50,000 and under 100,000 tons	100,000 and under 200,000 tons	200,000 tons and over.	
1883	209	233	133	39	10	15	639
1884	262	273	148	38	16	4	741.
1885	286	290	143	40	18	1	778
1886	316	280	135	44	11	3	789
1887	320	278	141	42	18	2	801
1888	327	272	151	47	20	5	822
1889	321	316	139	55	20	3	854
1890	398	301	155	54	24	4	936
1891	403	260	161	52	37	6	918
1892	332	239	151	65	46	6	839
1893	282	232	140	75	47	12	788
1894	312	252	161	61	44	6	836
1895	319	278	145	61	45	9	855
1896	330	280	128	63	45	16	862
1897	346	250	120	79	41	17	853
1898	351	244	151	86	42	7	881
1899	346	261	123	78	56	25	889
1900	340	295	123	70	65	27	920
1901	313	308	124	79	58	33	915
1902	314	263	152	76	72	38	915
Averages—20 years	322	271	141	61	37	12	845
Percentages:							
1902	34.31	28.74	16.61	8.31	7.88	4.15	100.00
1901	34.21	33.66	13.55	8.63	6.34	3.61	100.00
1900	36.95	32.07	15.37	7.61	7.07	2.93	100.00
1899	38.92	29.36	13.84	8.77	6.30	2.81	100.00
1898	39.84	27.70	17.14	9.76	4.77	0.79	100.00
1897	40.56	29.31	14.07	9.26	4.81	1.99	100.00
1896	38.28	32.48	14.85	7.31	5.22	1.86	100.00
1895	37.31	32.28	16.96	7.14	5.26	1.05	100.00
1894	37.32	30.14	19.26	7.30	5.26	0.72	100.00
1893	35.79	29.44	17.77	9.52	5.96	1.52	100.00
1892	39.57	28.49	18.00	7.75	5.48	0.71	100.00

The most notable feature here shown is the large increase in the number of mines producing 100,000 tons and over. Twenty years ago there were 25 mines in this class, this year we have 110, an increase of 340 per cent. In the last decade the number has increased 86 per cent. The tendency seems clear for an increase of large producing mines and an increased capacity, rather than to multiply the smaller mines.

The collieries of the State, which have undoubtedly reached to nearly the maximum of their capacity, are presented in the following lists:

TABLE 7.—*Mines from which more than 100,000 tons and less than 200,000 tons of Coal have been delivered during the year 1902.*

Rank.	Companies.	Location.	Tons.
1	Jones & Adams Coal Co.....	Springfield.....	194,128
2	Odin Coal Co.....	Odin.....	191,528
3	Willis Coal & Mining Co.....	Willisville.....	191,044
4	Donk Bros. Coal & Coke Co.....	Collinsville.....	190,828
5	Western Anthracite Coal Co.....	Sparta.....	186,000
6	Black Diamond Coal and Tile Co.....	Springfield.....	183,250
7	Brookside Coal & Mining Co.....	Danville.....	182,928
8	Viriden Coal Co.....	Viriden.....	182,200
9	Wilson Coal Mining & Mfg. Co.....	Diamond.....	179,751
10	Braceville Coal Co.....	Braceville.....	177,014
11	Muddy Valley Mining & Mfg. Co.....	Hallidayboro.....	173,838
12	Chicago, Wilmington & Vermilion Coal Co.....	Seatonville.....	173,647
13	LaSalle Co. Carbon Coal Co.....	LaSalle.....	172,124
14	LaSalle Co. Carbon Coal Co.....	LaSalle.....	172,100
15	Starne's Coal Co.....	Springfield.....	169,446
16	Consolidated Coal Co.....	Breese.....	168,183
17	LaSalle Co. Carbon Coal Co.....	LaSalle.....	167,223
18	Consolidated Coal Co.....	Collinsville.....	161,239
19	Coal Valley Mining Co.....	Sherrard.....	152,660
20	Capitol Coöperative Coal Co.....	Springfield.....	151,810
21	Star Coal Co.....	Streator.....	150,363
22	Sunnyside Coal Co.....	Herrin.....	150,013
23	Muren Coal & Ice Co.....	New Baden.....	147,383
24	Hillsboro Coal Co.....	Hillsboro.....	147,024
25	Consolidated Coal Co.....	Collinsville.....	146,522

Table 7—Continued.

Rank.	Companies.	Location.	Tons.
26	Carterville Coal Co.....	Carterville.....	145,396
27	Catlin Coal Co.....	Catlin.....	145,011
28	Alden Coal Co.....	Wanlock.....	144,768
29	Oglesby Coal Co.....	Oglesby.....	144,317
30	Montgomery Coal Co.....	Paisley.....	140,847
31	Sangamon Coal Co.....	Springfield.....	140,341
32	Southern Illinois C. M. & W. Co.....	Marion.....	139,537
33	LaSalle Co. Carbon Coal Co.....	LaSalle.....	138,344
34	Greenview Coal Mining Co.....	Greenview.....	137,243
35	Economy Coal Mining Co.....	Diamond.....	137,206
36	Victor Coal Co.....	Pawnee.....	135,973
37	West End Coal Co.....	Springfield.....	134,620
38	Acme Coal Co.....	Streator.....	132,250
39	Greenridge Mining Co.....	Greenridge.....	131,354
40	White Breast Fuel Co.....	Dunfermline.....	131,291
41	McLean Co. Coal Co.....	Bloomington.....	130,000
42	Spring Valley Coal Co.....	Spring Valley.....	128,700
43	Riverton Coal Co.....	Springfield.....	127,206
44	Penwell Coal Mining Co.....	Pana.....	122,025
45	Big Four Coal Co.....	Coal City.....	121,204
46	Davenport Coal Co.....	Ledford.....	120,860
47	Big Four Coal Co.....	Coal City.....	120,358
48	Springfield Coöperative Coal Co.....	Springfield.....	120,000
49	Wabash Coal Co.....	Athens.....	119,712
50	Lumaghi Coal Co.....	Collinsville.....	119,394
51	Riverton Coal Co.....	Riverton.....	117,942
52	Lumaghi Coal Co.....	Collinsville.....	116,860
53	Chicago Virden Coal Co.....	Chatham.....	116,289
54	Donk Bros. Coal & Coke Co.....	Troy.....	115,493
55	Wenona Coal Co.....	Wenona.....	112,932
56	Star Coal Co.....	Carbon Hill.....	112,083
57	Wabash Coal Co.....	Dawson.....	108,345
58	Roanoke Coal Mining Co.....	Roanoke.....	107,584
59	Muren Coal & Ice Co.....	Belleville.....	107,506
60	Madison Coal Co.....	Belleville.....	107,222
61	New Ohio Washed Coal Co.....	Carterville.....	106,812
62	Maplewood Coal Co.....	Farmington.....	105,228
63	Trenton Coal Co.....	Trenton.....	104,76

Table 7—Concluded.

Rank.	Companies.	Location.	Tons.
64	Spaulding Coal Co.....	Spaulding.....	104,350
65	Walnut Hill Coal Co.....	Birkner.....	102,936
66	Woodside Coal Co.....	Springfield.....	102,311
67	Emerson Hakes.....	Rutland.....	101,290
68	Springside Coal Mfg. Co.....	Pana.....	101,092
69	Sorento P. & Mfg. Co.....	Sorento.....	100,740
70	Chicago Big Muddy Coal Co.....	Marion.....	100,630
71	Spaulding Coal Co.....	Bissell.....	100,507
72	Newsam Bros.....	Kingston Mines.....	100,360
	Total tons.....		9,923,538

TABLE 8.—*Mines from which more than 200,000 tons of Coal have been delivered during the year 1902.*

Rank.	Companies.	Location.	Days in operation.	Depth of Mine.	Thickness of seam.	How worked.	Tons.
1	Kelleyville Coal Co. No. 3.....	Danville.....	245	212	7	H.	404,391
2	Kelleyville Coal Co. No. 2.....	Danville.....	256	210	6.6	H.	398,073
3	Staunton Coal Co. No. 1.....	Staunton.....	230	292	7	M.	343,944
4	Big Muddy Coal & Iron Co.....	Herrin.....	216	140	9	H.	336,366
5	Spring Valley Coal Co. No. 1.....	Spring Valley	261	345	3.6	H.	329,359
6	Spring Valley Coal Co. No. 2.....	Spring Valley	254	342	3.6	H.	319,450
7	Himrod Coal Co. (Himrod).....	Danville.....	232	170	8	H&M	309,622
8	Pittenger & Davis Mining & M'f'g. Co....	Centralia.....	250	662	6	H.	308,093
9	Riverton Coal Co. No. 2.....	Riverton.....	246	232	5.9	H.	295,359
10	Westville Coal Co.....	Westville.....	281	210	7	H.	293,111
11	Spring Valley Coal Co. No. 3.....	Spring Valley	260	481	3.6	H.	259,868
12	Devlin Coal Co. No. 1.....	Toluca.....	280	512	2.8	H&M	238,287
13	Chicago Wilmington & Vermilion Coal Co	Thayer.....	236	294	7.6	M.	236,281
14	Himrod Coal Co. (Pawnee).....	Danville.....	239	90	8	H.	276,425
15	Chi. Wilm'gton & Vermilion C. Co. No. 1.	Streator.....	237	96	8	H.	273,571
16	Chicago Wilmington & Vermilion Coal Co	S. Wilm'gton.	261	195	3.3	H.	273,538
17	Big Muddy Coal & Iron Co. (Harrison)....	Murphysboro.	249	150	6.6	M.	267,131
18	Madison Coal Co. No. 6.....	Divernon.....	227	318	8	M.	263,661
19	Centralia Mining & M'f'g. Co. No. 2.....	Centralia.....	243	676	7	H.	259,047
20	Chicago Virden Coal Co.....	Virden.....	189	320	7.6	M.	256,442

Table 8--Concluded.

Rank.	Companies.	Location.	Days in operation.	Depth of Mine.	Thickness of seam.	How worked.	Tons.
21	Madison Coal Co. No. 4.....	Glen Carbon..	239	130	6.6	M.	255,875
22	Marquette 3d Vein Coal Co. No. 1.....	Marquette.....	256	302	3.6	H.	250,342
23	Consolidated Coal Co. No. 8.....	Mount Olive..	236	410	8	M.	237,871
24	Big Muddy Coal & Iron Co. No. 6.....	Murphysboro.	249	150	6.3	M.	236,155
25	Consolidated Coal Co. No. 6.....	Staunton.....	223	322	6	M.	235,145
26	Madison Coal Co. No. 5.....	Mount Olive..	219	435	8	M.	231,698
27	St. Louis & Big Muddy Coal Co., (Daws).	Carterville....	194	90	9	H.	227,391
28	Taylorville Coal Co.....	Taylorville....	258	462	7.6	H.	224,834
29	Chicago Virden Coal Co. No. 2.....	Auburn.....	192	280	7.6	H.	222,390
30	Madison Coal Co. No. 2.....	Glen Carbon..	203	110	6.6	M.	221,900
31	Chi. Wilm'gton & Vermilion C. Co. No. 2	Streator.....	239	116	6	H.	221,386
32	Breese Coal Co.....	Breese.....	240	400	8	H.	218,064
33	Consolidated Coal Co. No. 7.....	Staunton.....	220	360	6.8	M.	212,003
34	Consolidated Coal Co. No. 10.....	Mount Olive..	230	431	8	M.	211,844
35	Chicago & Carterville Coal Co. No. 1.....	Herrin.....	219	180	9	H&M	209,701
36	Illinois 3d Vein Coal Co. B.....	Ladd.....	258	465	3.6	H.	206,978
37	Cardiff Coal Co. No. 1.....	Cardiff.....	253	255	12	H&M	203,473
38	Empire Coal Co. No. 3.....	Gilchrist.....	261	140	4.3	H.	202,898
	Total.....	.....	.....	.....	.....	.....	10,101,867

In the first list 72 collieries are represented, aggregating an output of 9,923,538 tons, or an average of 137,827 tons each. The second list shows 38 collieries, the combined product being 10,101,867 tons. In this class the Chicago Wilmington and Vermilion Coal Company, Madison Coal Company, and Consolidated Coal Company, are each represented by four mines; the Big Muddy Coal and Iron Company and Spring Valley Coal Company, three each; the Kelleyville Coal Company, Chicago Virden Coal Company and the Himrod Coal Company, two each; these companies represent 24 collieries; the others are single mines, 14 in all, of the companies named.

The Kelleyville Coal Company, Danville, heads the list of these larger collieries with 404,391 tons; this is the first time in the history of coal mining in the State where a single mine has achieved this

remarkable output. Ten years ago a single mine producing 100,000 tons less than the mine heading this list was considered as having almost reached the climax.

The changes in the number of mines in the districts are presented in the following table:

TABLE 9.—*Gain and Loss in Number of Mines, 1901-1902, by Districts.*

District.	Total number of mines, 1901.	Number of new mines opened, 1902.	Total.	Number mines abandon'd 1902.	Total number of mines, 1902.	YEAR 1902.	
						Gain.	Loss.
First.....	80	8	88	11	77	.....	3
Second.....	187	21	208	32	176	.....	11
Third	225	25	250	9	241	16	.....
Fourth.....	81	12	93	9	84	3	.....
Fifth.....	102	20	122	23	99	.....	3
Sixth.....	110	12	122	11	111	1	.....
Seventh.....	130	13	143	16	127	.....	3
The State....	915	111	1,026	111	915	20	20

The third district shows a gain of 16 mines, the fourth three and the sixth one; these, however, are all small mines. The other districts show a combined loss of 20, mostly small mines.

For a number of years the mines classed as "shipping mines", being the collieries transporting their product to the markets of the country, have produced regularly about 96 per cent of the coal of the State, and employed nearly the same proportion of those engaged in the work of mining and delivering the same, thereby, in fact, virtually representing the coal industry of Illinois. The tabulation, therefore, in this report has been, for the most part, divided on the lines indicated, showing the operations of the shipping or commercial mines in detail as regards essential particulars, and the grouping of local or limited mines as one item. This separation has always been a distinct feature of these reports, but not carried throughout all the distinct particulars.

To establish the importance of this separation and the governing influence held by these commercial mines, respecting the coal industry of the State, the following list of 332 mines, operated by 200

companies, 23 firms and 24 individuals, is presented, giving the total tons produced, the tons shipped and the tons disposed of otherwise.

A List of the Shipping or Commercial Collieries of the State, arranged according to Output, 1902.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Consolidated Coal Co ..	21	Mt. Olive....	2,144,355	1,910,608	233,747
.....do.....		Staunton			
.....do.....		Breese.....			
.....do.....		Collinsville....			
.....do.....		Mission Field			
.....do.....		Fairmount.....			
.....do.....		Gillespie.....			
.....do.....		Hornsby.....			
.....do.....		Trenton.....			
.....do.....		Troy			
.....do.....		Belleville.....			
.....do.....		Marissa.....			
Chicago Wilmington & Vermillion Coal Co....	6	Thayer.....	1,276,275	1,219,074	57,201
.....do.....		Streator			
.....do.....		Wilmington....			
.....do.....		Seatonville....			
.....do.....		S.Wilmington			
Madison Coal Co	6	Belleville.....	1,164,898	1,045,568	119,330
.....do.....		Divernon.....			
.....do.....		Mt. Olive.....			
.....do.....		Glen Carbon			
.....do.....		Edwardsville....			
Spring Valley Coal Co	4	Spring Valley	1,067,377	1,007,838	59,539
Big Muddy Coal & Iron Co	3	Herrin.....	839,652	808,019	31,633
.....do.....		Murphysboro....			
Kelleyville Coal Co	3	Danville.....	805,381	781,371	24,010
LaSalle County Carbon Coal Co!.....	4	LaSalle.....	649,771	471,267	178,504
Chicago Virden Coal Co	3	Virden.....	595,121	573,663	21,458

Shipping or Commercial Collieries—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Chicago Virden Coal Co.....		Auburn.....			
.....do.....		Chatham.....			
Himrod Coal Co.....	2	Danville.....	586,047	576,853	9,194
Riverton Coal Co.....	3	Riverton.....	540,507	517,442	23,065
.....do.....		Springfield.....			
Donk Brothers Coal Co.....	4	Collinsville...	386,572	371,401	15,171
.....do.....		Troy.....			
.....do.....		Marysville.....			
.....do.....		Belleville.....			
Star Coal Co.....	4	Streator.....	385,864	372,443	13,421
.....do.....		Carbon Hill.....			
Staunton Coal Co.....	1	Staunton.....	343,944	330,861	13,083
Southern Ill. Coal Mining & Washing Co....	3	Marion.....	327,891	308,591	19,300
Devlin Coal Co.....	2	Toluca.....	314,572	270,423	44,149
Pittenger & Davis Mining & Mfg. Co.....	1	Centralia.....	308,093	206,042	102,051
Willis Coal & Mining Co.....	3	Willisville.....	307,506	242,946	64,560
.....do.....		Sato.....			
.....do.....		DuQuoin.....			
Westville Coal Co.....	1	Westville.....	293,111	286,984	6,127
Marquette Third Vein Coal Co.....	2	Marquette....	260,029	244,336	15,693
.....do.....		Sparland.....			
Centralia Mining & Mfg. Co.....	1	Centralia.....	259,047	173,922	85,125
Murrin Coal & Ice Co.....	2	New Baden....	254,789	215,541	39,348
.....do.....		Belleville.....			
Big 4 Coal Co.....	2	Coal City.....	241,592	220,402	12,190
Wilmington Coal Mining & Mfg. Co.....	2	Diamond.....	239,778	229,464	10,314
Lumaghi Coal Co.....	2	Collinsville...	236,254	223,889	12,365
Whitebreast Fuel Co.....	3	Dunfermline...	229,553	222,305	7,248
.....do.....		St. David.....			
Newsam Bros.....	5	Kings'n Mines	228,668	217,822	10,846

Shipping or Commercial Collieries—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Newsam Bros.....	...	Farmington ..	.....	.....	.....
.....do.....	...	Wolcott City ..	.....	.....	.....
.....do.....	...	Hanna City....	.....	.....	.....
.....do.....	...	Starr.....	.....	.....	.....
Wabash Coal Co.....	2	Athens.....	228,057	213,811	14,246
.....do.....	...	Dawson.....	.....	.....	.....
St. Louis & Big Muddy Coal Co.....	1	Cartersville ...	227,301	202,470	24,831
Taylorville Coal Co	1	Taylorville....	224,834	168,461	56,373
Coal Valley Mining Co.....	2	Sherrard	221,882	209,718	12,164
.....do.....	...	Cable .....	.....	.....	.....
Breese Coal Co.....	1	Breese.....	218,064	170,964	47,100
Chicago & Cartersville Coal Co.....	1	Herrin.....	209,701	195,297	14,404
Illinois Third Vein Coal Co.....	1	Ladd.....	206,978	190,370	16,608
New Ohio Wash Coal Co.....	2	Cartersville....	206,263	198,463	7,800
Spaulding Coal Co	2	Spaulding	204,857	196,575	8,282
.....do.....	...	Bissell.....	.....	.....	.....
Cardiff Coal Co.....	1	Cardiff.....	203,473	194,454	9,019
Empire Coal Co.....	1	Gilchrist.....	202,898	193,945	8,953
Jones & Adams Coal Co.....	1	Springfield...	194,128	181,400	12,728
Odin Coal Co.....	1	Odin.....	191,528	174,584	16,944
Western Anthracite Coal Co.....	1	Sparta	186,000	181,800	4,200
Black Diamond Coal & Tile Co.....	1	Springfield...	183,250	176,357	6,893
Brookside Coal Mining Co.....	1	Danville.....	182,928	178,496	4,442
Viriden Coal Co.....	1	Viriden.....	182,200	176,880	5,320
Joseph Taylor.....	2	O'Fallon.....	180,633	166,482	14,151
Braceville Coal Co	1	Braceville	177,014	169,553	7,461
Muddy Valley Mining & Mfg. Co.....	1	Hallidayboro.	173,838	125,615	48,223
Citizens' Coal Mining Co	2	Springfield...	173,330	146,562	26,768
Starne's Coal Co.....	1	....do.....	169,446	163,632	5,814
Capitol Coöperative Coal Co.....	1	....do.....	151,810	79,427	72,383
Sunnyside Coal Co.....	1	Herrin.....	150,013	143,558	6,455
Missouri & Illinois Coal Co.....	3	Belleville.....	148,425	133,837	9,588

Shipping or Commercial Collieries—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Hillsboro Coal Co.....	1	Hillsboro.....	147,024	137,085	9,939
Carterville Coal Co.....	1	Carterville...	145,396	140,796	4,600
Catlin Coal Co.....	1	Catlin.....	145,011	140,000	5,011
Alden Coal Co.....	1	Wanlock.....	144,768	134,475	10,293
Oglesby Coal Co.....	1	Oglesby.....	144,317	134,449	9,868
Wilmington Star Mining Co.....	2	Coal City.....	141,477	135,501	5,976
Kolb Coal Co.....	2	Mascoutah....	140,972	101,682	39,290
Montgomery Coal Co.....	1	Paisley.....	140,847	134,561	6,286
Sangamon Coal Co.....	1	Springfield...	140,341	126,263	14,078
Greenview Coal Mining Co.....	1	Greenview....	137,243	123,323	13,920
Economy Coal Mining Co.....	1	Diamond.....	137,206	119,000	18,206
Victor Coal Co.....	1	Pawnee.....	135,973	128,238	7,735
West End Coal Co.....	1	Springfield...	134,620	120,000	14,620
Acme Coal Co.....	1	Streator.....	132,250	99,195	33,055
Greenridge Mining Co.....	1	Greenridge....	131,354	126,630	4,724
McLean County Coal Co.....	1	Bloomington..	130,000	40,000	90,000
Penwell Coal Mining Co.....	1	Pana.....	122,025	98,556	23,469
Davenport Coal Co.....	1	Ledford.....	120,860	107,660	13,200
Springfield Coöperative Coal Co.....	1	Springfield...	120,000	94,000	26,000
Glendale Coal Co.....	2	Belleville....	113,000	96,000	17,000
Wenona Coal Co.....	1	Wenona.....	112,932	102,148	10,784
Roanoke Coal Mining Co.....	1	Roanoke.....	107,584	88,100	19,484
Maplewood Coal Co.....	1	Farmington..	105,228	100,378	4,850
Trenton Coal Co.....	1	Trenton.....	104,763	95,963	8,800
Superior Coal Co.....	2	DuQuoin.....	103,491	99,691	3,800
Walnut Hill Coal Co.....	1	Birkner.....	102,986	97,545	5,441
Woodside Coal Co.....	1	Springfield...	102,311	64,211	38,100
Emerson Hakes.....	1	Rutland.....	101,290	96,090	5,200
Springside Coal Co.....	1	Pana.....	101,092	91,900	9,192
Sorento Prospecting & Mfg. Co.....	1	Sorento.....	100,740	85,749	14,991
Chicago Big Muddy Coal Co.....	1	Marion.....	100,630	98,385	2,245

Shipping or Commercial Collieries—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Carlinsville Coal Co.....	1	Carlinsville ...	99,494	81,193	18,301
Christian County Coal Co	1	Taylorville....	99,172	92,707	6,465
Hippard Coal Co	2	Belleville.....	98,181	84,516	13,665
Pana Coal Co	1	Pana	97,640	55,202	42,438
Cantrall Coöperative Coal Co.....	1	Cantrall	97,466	76,173	21,293
Citizens' Coal Mining Co	1	Lincoln	94,880	59,922	34,958
Williamsville Coal Co.....	1	Selbytown	94,034	84,034	10,000
Litchfield Mining & Prospecting Co.....	1	Litchfield	93,264	62,422	30,842
Sholl Bros	1	Peoria	90,000	88,777	1,223
Independent Coal Co.....	1	Cartersville ...	90,000	85,000	5,000
Sandoval Coal Co	1	Sandoval	89,218	82,718	6,500
Moweaqua Coal Mining & Mfg. Co.....	1	Moweaqua....	88,117	58,706	29,411
Jupiter Coal Co.....	1	DuQuoin.....	86,095	83,770	2,325
Horns Colliery Co.....	1	DuQuoin.....	85,891	85,891	.....
Athens Mining Co.....	1	Athens	85,240	78,305	6,935
Gartside Coal Co	2	Murphysboro..	82,413	75,442	6,971
Lebanon Coal & Mining Association.....	1	Lebanon	80,436	50,236	30,200
Assumption Coal Mining Co	1	Assumption ..	80,325	66,932	13,393
Oakland Coal Co.....	1	Belleville....	77,671	75,517	2,154
Lincoln Coal Co	1	Lincoln	76,410	41,390	35,020
Harrisburg Mining & Coal Co.....	1	Harrisburg...	76,108	64,008	12,100
James Cahill.....	1	Peru	75,109	22,000	53,100
Williamson County Coal Co.....	1	Lake Creek ..	74,022	69,761	4,261
Republic Iron & Steel Co.....	1	Ridgely.....	71,108	65,308	5,800
Decatur Coal Co.....	2	Decatur	69,070	51,535	17,535
.....do .....	...	Niantic .....	.....	.....	.....
Barclay Coal Mining Co.....	1	Barclay	67,267	64,667	2,600
Walschlag Coöperative Coal Co.....	1	Peoria	67,257	66,508	749
Girard Coal Co	1	Girard	67,152	29,838	37,314
Greenwood & Davis Coal Co	1	DuQuoin	64,774	64,774	.....
Beck-Walker Coal Co.....	1	Belleville....	64,328	59,328	5,000
Sunday Creek Coal Co.....	1	Middle Grove..	58,814	58,814	.....

Shipping or Commercial Collieries—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Valley Coal & Mfg. Co.....	1	Birkner.....	57,343	56,583	760
Belleville & O'Fallon Coal Co.....	1	Belleville.....	55,435	38,709	16,726
Whitewalnut Coal Co.....	1	Pinckneyville.....	54,946	29,701	25,245
Applegate & Lewis.....	1	Cuba.....	54,709	41,280	13,429
Norris Coal Co.....	1	Norris.....	54,000	52,500	1,500
Conrad Reinecke.....	1	Belleville.....	53,759	51,059	2,700
John O'Connell Co.....	1	Danville.....	52,365	50,741	1,624
Gardner-Wilmington Coal Co.....	1	Clark City.....	51,901	41,076	10,825
O'Fallon Coal & Mfg. Co.....	1	O'Fallon.....	51,683	50,391	1,292
Astoria Coal & Mining Co.....	1	Astoria.....	51,234	50,620	614
Marion Coal Co.....	1	Marion.....	50,971	48,661	2,310
Collier Coöperative Coal Co.....	1	Bartonville.....	50,000	49,400	600
Auburn & Alton Coal Co.....	1	Auburn.....	50,000	47,275	2,725
Scripps Coal Co.....	2	Astoria.....	49,575	48,841	734
.....do.....	.....	Ipava.....	.....	.....	.....
Nilwood Carbon Coal Co.....	1	Nilwood.....	49,250	40,000	9,250
Pontiac Coal Co.....	1	Pontiac.....	47,420	22,782	24,638
Skellet Coal Co.....	1	Belleville.....	45,861	40,021	5,840
Charles Hartman.....	1	Belleville.....	45,000	34,700	10,300
Murphy, Keenan & Co.....	1	Braidwood.....	44,616	35,441	9,175
Tirre & Sons Coal Co.....	1	Lenzberg.....	44,000	30,800	13,200
Eureka Coal Co.....	1	Marissa.....	43,397	40,290	3,107
Grant & Son.....	1	Peoria.....	42,640	42,640	.....
Lenz Coal & Mining Co.....	1	Belleville.....	41,985	41,385	600
Ruby Manufacturing Co.....	1	Caseyville.....	41,843	38,743	3,100
Tilden Coal Co.....	1	Tilden.....	41,782	36,449	5,333
Hayworth & Taylor.....	1	Edwards.....	40,984	40,984	.....
Summit Coal Co.....	1	Belleville.....	40,835	40,123	712
Bordens Coal Co.....	1	Marissa.....	40,500	37,200	3,300
Hugh Murray.....	2	Equality.....	39,621	21,115	18,506
.....do.....	.....	Nashville.....	.....	.....	.....
Illinois Fuel Co.....	2	Sparta.....	39,617	31,487	8,130

Shipping or Commercial Collieries—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Kerns-Donewald Coal Co.....	1	Worden.....	39,278	36,238	3,040
South Mountain Coal Co.....	1	Petersburg...	38,948	33,485	5,463
Dutch Hollow Coal Co.....	1	Freeburg.....	38,810	36,000	2,810
Robert Dick Coal Co.....	1	Cartersville...	37,137	36,237	900
Highland Coal Co.....	1	Belleville.....	36,930	24,772	12,158
Etherly Coal Co.....	1	Etherly.....	36,902	35,982	920
Farmington Coal Co.....	1	Farmington..	36,899	34,983	2,516
Colfax Coal Co.....	1	Colfax.....	36,472	18,226	18,246
Sunlight Coal Co.....	1	Freeburg.....	36,287	33,427	2,860
Morris Bros. Coal Co.....	1	DuQuoin.....	35,967	32,967	3,000
Henrietta Coal Co.....	1	Edwardsville.	35,945	30,558	5,387
Oak Hill Coal Co.....	1	Belleville.....	35,429	33,362	2,067
Kewanee Coal & Mining Co.....	1	Kewanee.....	34,651	30,751	3,900
Silvis Mining Co.....	1	Carbon Cliff..	34,620	34,014	606
St. Louis & O'Fallon Coal Co.....	1	Belleville.....	34,305	33,200	1,105
Tallula Coal Co.....	1	Tallula.....	34,184	30,102	4,082
Monmouth Coal Co.....	1	Canton.....	34,016	31,230	2,786
Davis & Fulton.....	1	Sparta.....	33,692	30,383	3,309
Bailey Bros. Coal Co.....	1	Sunfield.....	33,309	31,438	1,871
Vicary Bros.....	1	Peoria.....	33,240	23,268	9,972
New Virginia Coal Co.....	1	Lake Creek...	33,154	31,354	1,800
A. M. Brockman.....	1	Streator.....	33,007	30,325	2,682
P. W. Meehan.....	1	Cuba.....	33,000	33,000	.....
Clover Leaf Coal Co.....	1	Coffeen.....	32,927	29,978	2,949
Humboldt Coal Co.....	1	Belleville...	31,812	25,812	6,000
Phoenix Coal Co.....	1	Peoria.....	31,500	31,000	500
Johnson Coal Co.....	1	Marissa.....	30,421	28,921	1,500
Kinmundy Coal Co.....	1	Kinmundy....	30,220	21,793	8,427
Soper & Co.....	1	Cutler.....	29,764	24,244	5,520
Royster & Zeigler.....	1	Peoria.....	29,535	28,935	600
Roseborough Coal Co.....	1	Percy.....	29,180	27,974	1,206
Geo. W. Brown.....	1	Pinckneyville	28,320	26,100	2,220

Shipping or Commercial Collieries—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Manck Bros.....	1	Danville.....	28,000	4,784	23,216
Kramm Bros.....	1	Edwards.....	27,954	27,698	256
Illinois Zinc Co.....	1	Peru.....	25,890	25,662	228
Canton Union Coal Co.....	1	Canton.....	24,860	18,390	6,470
Germantown Coal Co.....	1	Germantown..	23,414	18,436	4,978
Coulterville Mining Co.....	1	Coulterville ..	23,171	20,240	2,931
James Walker.....	1	Mapleton.....	22,322	22,200	122
Rieb Coal Co.....	1	Belleville.....	22,245	18,581	3,664
W. E. Foley.....	1	Mapleton.....	22,080	21,960	120
Fred Murphy.....	1	Belleville.....	22,000	18,000	4,000
Progressive Coal.....	1	East Peoria...	22,000	8,000	14,000
Sholl & Son.....	1	Bartonville...	21,000	20,000	1,000
Crystal Coal Co.....	1	Tilden.....	20,100	20,000	100
Ubben Coal Co.....	1	Pekin.....	20,000	20,000	.....
Adam Kuhn.....	1	Dubois.....	20,000	16,000	4,000
Edward Little.....	1	East Peoria...	19,750	19,390	360
Goalby Bros. Coal Co.....	1	Percy.....	19,410	19,137	273
Walton Bros.....	1	Fairbury.....	18,420	3,000	15,420
Enterprise Mfg. Co.....	1	Rentchler.....	17,517	17,165	352
Jefferson Coal & Mining Co.....	1	Springfield...	17,436	16,126	1,310
J. E. Crouch.....	1	Mt. Vernon...	17,418	1,685	15,733
East Peoria Coal Co.....	1	East Peoria...	17,321	9,902	7,419
Reentz & Son.....	1	Kramm.....	17,260	17,260	.....
German Coal Co.....	1	Mapleton.....	17,153	17,153	.....
Milstadt Coal Co.....	1	Milstadt.....	16,600	12,700	3,900
Clifton Coal Co.....	1	Ledford.....	16,138	14,800	1,338
M. Whittemore.....	1	Berkner.....	14,932	14,500	432
Old Kentucky Coal Co.....	1	Tamara.....	13,985	13,105	880
Rippetoe & Rundle.....	1	Colchester...	13,984	12,322	1,662
Sheffield Mining Co.....	1	Sheffield.....	13,405	6,273	7,132
Monarch Coal & Mining Co.....	1	Farmington..	13,015	11,569	1,446
Chicago & Herrin Coal Co.....	1	Herrin.....	12,864	11,270	1,594

Shipping or Commercial Collieries—Continued.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Total loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Turner & Faust.....	1	Pickneyville..	12,268	8,735	3,533
Dutch Hill Coal Co.....	1	New Athens..	12,000	10,000	2,000
Trutter Coal Co.....	1	Pleas't Plains.	12,000	7,740	4,260
Whiteleather Coal Co.....	1	Cuba.....	10,240	10,240	.....
Wantling & Son.....	1	Pottstown	10,240	10,240	.....
Advance Coal Co.....	1	Marissa.....	10,000	9,660	380
Lake Coal Co.....	1	Belleville.....	10,000	9,900	100
Atlas Coal Co.....	1	Galva.....	9,890	8,027	1,863
Muncie Coal Co.....	1	Muncie.....	8,832	4,530	4,302
Junction Coöperative Coal Co.....	1	Petersburg...	8,260	6,000	2,260
J. M. Laws	1	Canton.....	8,001	7,801	200
Third Vein Coal Co.....	1	Orch'd Mines.	7,204	4,825	2,379
Bunting Bros.....	1	Grape Creek..	7,178	902	6,276
Mt. Pulaski Coal Co.....	1	Mt. Pulaski...	6,741	121	6,620
Raymond Coal Co	1	Raymond.....	5,748	288	5,460
Cusack & Edwards.....	1	Edwards	5,400	5,400	.....
Reilly, Moffatt & Co.....	1	Braldwood....	,270	4,262	1,008
Taylor & Peck.....	1	Cuba.....	5,000	4,000	1,000
William Denton.....	1	Petersburg...	4,800	1,650	3,150
Terminal Coal Co.....	1	Edwardsville.	4,269	3,400	869
B. B. Peterson.....	1	Cable	4,016	1,800	2,216
Oakwood Coal Co.....	1	Oakwood.....	4,000	600	3,400
Lilliman & Co.....	1	Cable	4,000	3,225	775
Saline County Coal Co.....	1	Harrisburg...	4,000	3,500	500
Docherty Bros	1	Preemption...	3,800	600	3,200
Meredith Bros.....	1	Augusta.....	3,700	3,700	.....
Standard Coal Co.....	1	Seneca.....	3,500	400	3,100
S. Miller.....	1	Mapleton.....	3,360	3,360	.....
Black Diamond Coal Co.....	1	Coal Valley...	3,278	2,442	836
Arthur Jones	1	Viola	2,944	240	2,704
Alex. Anderson.....	1	Streator	2,401	2,928	373
Petersburg Mining Co.....	1	Petersburg...	2,296	1,200	1,096

Shipping or Commercial Collieries—Concluded.

NAME OF OPERATOR.	Number of mines.	Postoffice address and location of mine.	Total output of all grades.	DISPOSITION OF OUTPUT.	
				Tons loaded on cars for shipment.	Tons to locomotives, sold local trade and consumed and wasted at the mine.
Joseph Mauck.....	1	Danville	1,920	400	1,520
Chicago & Coulterville Coal Co.....	1	Coulterville...	1,386	703	683
Elmwood Coal Co.....	1	Elmwood.....	1,000	1,000	.....
Haskins & Son	1	Grape Creek..	805	105	700
Little Muddy Coal Co.....	1	Tamaroa.....	800	400	400
Thomas Kelly.....	1	Grape Creek..	800	400	400
De Soto Coal & Washing Co.....	1	Murphysboro.	200	150	50
Johnson City Big Muddy Coal Co.....	1	Lake Creek...	150	100	50
Totals.....	332	.....	28,824,750	25,680,542	3,144,208

The Consolidated Coal Company heads the list with 21 mines operated during the year, the yield being 2,144,355 tons, 90 per cent of the product being shipped.

The Chicago Wilmington & Vermilion Coal Company, Madison Coal Company and Spring Valley Coal Company follow, each producing over 1,000,000 tons during the year, the shipment of their output being 96, 90 and 94 per cent respectively, several of the other companies shipping even a greater percentage than those noted.

THE OUTPUT FOR THE YEAR.

The total yield of the mines of the State for the year has been 30,021,300 tons, divided as to grades, as shown in the following table, by districts:

TABLE 10.—*Output of the Shipping and Local Mines of the State with Tons of the Different Grades of Coal, by Districts—1902.*

DISTRICT.	TOTAL OUTPUT— TONS.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Lump.	Mine run.	Egg.	Nut.	Pea or screen- ings.	Slack or waste.
First.....	3,540,698	2,240,426	277,229	112,728	105,493	774,061	30,761
Second.....	2,852,589	1,994,748	176,784	20,590	71,941	294,312	294,214
Third.....	2,064,379	1,152,136	418,216	34,759	132,103	243,132	84,033
Fourth.....	3,757,201	1,015,000	2,115,488	12,916	118,379	414,454	80,964
Fifth.....	6,140,222	2,902,172	1,581,975	74,215	262,859	1,101,116	217,885
Sixth.....	6,162,466	3,452,056	1,219,641	13,042	367,767	852,054	257,906
Seventh.....	4,307,195	1,441,962	963,347	408,829	504,117	863,648	125,292
The State.....	28,824,750	14,198,500	6,752,680	677,079	1,562,659	4,542,777	1,091,055
Local mines.....	1,196,550	843,173	233,524	3,906	23,797	61,455	30,695
Total.....	30,021,300	15,041,673	6,986,204	680,985	1,586,456	4,604,232	1,121,750

The distribution as to grades is substantially the same as last year. Some of the districts, however, show a decided increase in the smaller grades, notably the increase of pea coal in the third, fourth, fifth and seventh districts.

The feature of the proportion of the different grades of coal is more observable in the following percentages:

TABLE 11.—*Percentages of the Total Output of the Different Grades of Coal, Shipping and Local Mines, by Districts.*

DISTRICT.	Per cent of total output.	PERCENTAGES OF THE DIFFERENT GRADES OF COAL.					
		Lump.	Mine run.	Egg.	Nut.	Pea or screen- ings.	Slack or waste.
First	12.28	63.28	7.83	3.18	2.98	21.86	.87
Second	9.90	69.93	6.20	.72	2.52	10.32	10.31
Third	7.16	55.81	20.26	1.68	6.40	11.78	4.07
Fourth	13.04	27.01	56.30	.34	3.16	11.04	2.15
Fifth	21.30	47.27	25.76	1.21	4.28	17.93	3.55
Sixth	21.38	56.02	19.79	.21	5.97	13.83	4.18
Seventh	14.94	33.48	22.37	9.49	11.70	20.05	2.91
The State	100.00	49.26	23.43	2.35	5.42	15.76	3.78
Local mines	100.00	70.48	19.51	.33	1.99	5.13	2.56

Considering the percentages of the total production by districts, it is here shown that the fifth and sixth districts contributed the same quantity to the output; while combined with the seventh district, the three furnished 58 per cent of the total product.

The percentages of lump coal of shipping mines for the State is approximately the same as for all mines last year. The same is true for the several districts.

For all mines the total output of the State, with the different grades and percentages, is given in the following table:

TABLE 12.—*Total Output of the Different Grades of Coal, all Mines, for Three Years, with Percentages.*

YEAR.	Total output—tons.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Lump.	Mine run.	Egg	Nut.	Pea or Screenings.	Slack or waste.
1900.....	25,153,929	13,927,899	5,554,417	495,637	1,323,582	2,811,520	1,040,874
1901.....	26,635,319	13,321,124	6,832,740	486,596	1,217,127	3,667,591	1,060,141
1902.....	30,021,300	15,041,673	6,986,204	680,985	1,586,456	4,604,232	1,121,750
Percentages ;							
1900.....		55.37	22.08	1.97	5.26	11.18	4.14
1901.....		50.01	25.84	1.83	4.57	13.77	3.98
1902.....		50.10	23.27	2.27	5.28	15.34	3.74

A very slight difference is observable in these percentages of all mines and those of the shipping mines.

A comparison of the total output of all mines for three years, with the gain and loss, by districts, is shown in the following table:

TABLE 13.—*Output for the years 1900, 1901 and 1902, Compared by Districts.*

DISTRICT.	TOTAL OUTPUT—TONS.			Gain (+) or loss (—) 1901.	Gain (+) or loss (—) 1902.	Percentages of gain 1902 over 1901.
	1900.	1901.	1902.			
First.....	3,702,049	3,563,198	3,729,724	—133,851	+161,526	4.53
Second.....	2,453,363	2,770,413	3,104,516	+317,050	+334,103	12.06
Third.....	1,997,173	1,985,205	2,413,463	—11,968	+428,258	21.57
Fourth.....	3,533,331	3,253,160	3,939,864	—280,171	+686,704	21.1
Fifth.....	4,816,452	5,416,504	6,213,386	+600,052	+796,882	14.71
Sixth.....	5,235,152	5,796,586	6,241,847	+561,434	+445,261	7.6
Seventh.....	3,416,409	3,845,253	4,378,500	+428,844	+533,247	12.22
The State.	25,153,929	26,635,319	30,021,300	+1,481,390	+3,885,981	12.71

It will be observed that every district shows a substantial gain this year over last; in 1901 the first, third and fourth districts show a loss in tonnage from 1900.

In the column of percentages it is found that the largest gains were in the third and fourth districts, both being 21+per cent; the fifth, seventh and second show but little variation in percentage of gain.

A general and comprehensive view of the coal industry of the State for a series of 21 years is presented in the following table:

TABLE 14.—*Output of the State for Twenty-one Years and the Mines and Men Producing the same.*

Year.	Mines.	Men.	Total output. (Tons)	Tons of lump.	Tons of other grades.	PERCENTAGE OF—	
						Lump.	Other grades.
1882	704	20,290	11,017,069	9,115,655	1,901,506	.....	.....
1883	639	23,939	12,123,456	10,030,991	2,092,465	.....	.....
1884	741	25,575	12,208,075	10,101,005	2,107,070	.....	.....
1885	778	25,946	11,834,459	9,791,874	2,402,585	.....	.....
1886	787	25,846	11,175,241	9,246,435	1,928,806	.....	.....
1887	801	26,804	12,423,066	10,278,890	2,144,176	.....	.....
1888	822	29,410	14,328,181	11,855,188	2,472,993	.....	.....
1889	854	30,076	14,017,298	11,597,963	2,419,335	.....	.....
1890	936	28,574	15,274,727	12,638,364	2,636,363	82.74	17.26
1891	918	32,951	15,680,698	12,960,224	2,700,474	82.76	17.24
1892	839	33,632	17,862,276	14,730,963	3,131,313	82.47	17.53
1893	788	35,390	19,949,564	16,112,899	3,836,665	80.77	19.23
1894	836	38,477	17,113,576	13,865,284	3,248,292	81.02	18.98
1895	874	38,630	17,735,864	14,045,962	3,689,902	79.25	20.75
1896	901	37,057	19,786,626	14,210,024	5,576,602	71.86	28.14
1897	853	33,788	20,072,758	14,672,241	5,400,517	73.10	26.90
1898	881	35,026	18,599,299	14,208,795	4,390,504	76.39	23.61
1899	889	36,991	23,434,445	17,427,598	6,006,847	74.37	25.63
1900	920	39,384	25,153,929	13,927,899	11,226,030	44.63	55.37
1901	915	44,143	26,635,319	13,321,124	13,314,195	50.01	49.99
1902	915	46,005	30,021,300	15,041,673	14,979,627	50.10	49.90

The increase in the tonnage in these years largely exceeds that of the men employed or the number of mines. Reduced to percentage it is found that the mines have increased 30 per cent, the men 127 per cent and the tonnage 263 per cent.

Relatively the performance of the several districts in supplying the coal for a series of 12 years is shown in percentages as follows:

TABLE 15.—*Percentages of the Tonnage of the Total Output of the State, produced by each District, for a Series of 12 Years.*

YEAR.	DISTRICTS.						
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.
1891	19.69	9.20	17.84	28.27	25.00	.....	.....
1892	19.36	9.70	18.26	28.65	24.03	.....	.....
1893	17.02	10.03	17.03	28.99	26.93	.....	.....
1894	15.69	9.95	17.99	30.23	26.14	.....	.....
1895	15.42	11.25	16.65	31.65	25.03	.....	.....
1896	15.34	13.60	3.18	14.17	23.70	19.08	10.93
1897	14.64	13.64	2.87	14.53	24.95	17.73	11.64
1898	11.83	13.71	3.89	13.83	21.10	18.60	16.99
1899	15.08	14.19	3.11	14.33	20.53	18.28	14.43
1900	14.72	9.75	7.94	14.05	19.15	20.81	13.58
1901	13.40	10.40	7.45	12.22	20.33	21.76	14.44
1902	12.42	10.34	8.04	13.12	20.70	20.79	14.59

For the first five years shown in this exhibit, the five districts maintained a very even supply. The creation of two additional districts, affecting the report of the year 1896 and subsequent years, materially changed the proportion of production in all the districts except the first.

HAULAGE IN THE MINES.

The system of haulage in the shipping mines is presented in the following table by districts:

TABLE 16.—*Haulage of Coal in the Shipping Mines of the State, by Districts.*

DISTRICT.	ELECTRICITY.		CABLE.		HORSE.		HAND.		VARIOUS.	
	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.	No. of mines.	Tons.
First.....					28	2,994,259	1	2,401	4	*544,038
Second.....			3	410,360	16	2,414,301	6	27,928		
Third.....	1	137,243			54	1,913,152			1	†13,984
Fourth.....	2	543,084	7	1,492,793	21	1,191,135			4	‡530,189
Fifth.....	3	692,253	5	723,029	38	4,724,940				
Sixth.....					77	5,377,262			3	‡785,204
Seventh.....	4	885,713			54	3,421,482				
The State..	10	2,258,293	15	2,626,182	288	22,036,531	7	30,329	12	1,873,415

*Horse, cable and electricity.

†Dogs.

‡Horse, cable, electricity and steam.

§Horse and electricity.

This accounts for haulage in shipping mines only. Very little change will be observed in the methods in use, from former years; one mine in the first and six in the second district haul by hand. The inspector of the third district reports one mine in which dogs are employed in hauling the coal to the shaft bottom. At this mine the coal seam is only 2 feet 4 inches thick.

OUTPUT BY COUNTIES.

For the past three years seventeen coal producing counties have had a record of supplying over half a million tons each; their combined product this year is 87 per cent of the total output of the State. Sangamon county has ranked as the largest producer for these years.

The following table gives the rank of the counties with the number of tons for a series of five years:

TABLE 17.—*Relative Rank of the Counties of the State Producing 500,000 Tons of Coal or Over for a Series of Five Years—1898-1902.*

County.	Rank...	Tonnage, 1902.	Rank...	Tonnage, 1901.	Rank...	Tonnage, 1900.	Rank...	Tonnage, 1899.	Rank...	Tonnage, 1898.
Sangamon	1	3,672,989	1	2,919,223	1	2,519,911	2	2,083,572	1	1,763,863
St. Clair.....	2	2,578,553	2	2,518,847	2	2,253,883	4	1,849,474	2	1,600,752
Vermilion.....	3	2,558,371	4	2,003,780	3	2,030,954	1	2,221,867	3	1,520,659
Macoupin.....	4	2,075,253	3	2,115,319	5	1,848,796	5	1,646,674	4	1,264,926
Williamson	5	2,013,692	6	1,605,960	9	1,133,607	9	1,078,755	6	915,108
Madison.....	6	1,956,271	7	1,595,081	6	1,441,650	7	1,403,977	13	630,769
LaSalle.....	7	1,894,510	5	1,833,561	4	2,027,864	3	1,975,939	5	1,165,490
Bureau	8	1,732,813	8	1,549,056	7	1,338,231	6	1,410,524	7	865,892
Grundy.....	9	1,383,336	9	1,293,092	8	1,299,863	8	1,280,332	9	796,249
Fulton.....	10	889,679	14	646,400	14	665,439	13	601,084	14	563,397
Marion	11	881,821	11	829,326	11	840,814	.....	.....	10	714,513
Jackson	12	853,056	10	911,245	10	883,311	11	875,711	6	911,194
Peoria.....	13	824,270	12	710,582	12	727,737	12	744,698	11	640,193
Perry.....	14	789,625	13	664,278	13	680,653	10	879,422	8	845,329
Christian.....	15	725,085	16	578,482	15	652,662	14	572,459	.....	.....
Clinton.....	16	724,462	15	644,664	16	635,601	.....	.....	.....	.....
Mercer.....	17	602,722	17	563,603	17	501,065	.....	.....	.....	.....
Total—Counties and Tons.....	17	26,156,511	17	22,982,499	17	21,383,041	14	18,624,488	14	14,198,374

This is the first time that the product of any one county has reached the three million mark. The output of Sangamon county's 30 mines being 3,672,989 tons, which is over 1,000,000 tons more than any other, clearly entitles it to rank as number one.

Following is a table showing the number of mines, men and tons, arranged alphabetically by counties:

TABLE 18.—*Coal Producing Counties of the State, Giving Number of District, Mines, Men and Tons, of Shipping and Local Mines, 1902.*

COUNTY.	SHIPPING MINES.				LOCAL MINES.		
	Dist.	Mines.	Men.	Tons.	Mines.	Men	Tons.
Bond.....	6	1	200	100,740	.....	.....	.....
Brown.....	5	.....	.....	.....	14	23	2,116
Bureau.....	2	8	3,762	1,711,749	10	63	21,064
Calhoun.....	5	.....	.....	.....	1	21	3,429
Cass.....	3	.....	.....	.....	2	8	2,100
Christian.....	4	6	1,144	725,088	.....	.....	.....
Clinton.....	6	6	1,007	724,462	.....	.....	.....
Edgar.....	4	.....	.....	.....	1	10	800
Fulton.....	3	19	1,554	806,274	48	206	83,405
Gallatin.....	7	1	69	27,640	7	33	10,884
Greene.....	5	.....	.....	.....	7	35	9,491
Grundy.....	1	12	3,254	1,356,752	13	93	26,584
Hamilton.....	7	.....	.....	.....	2	7	550
Hancock.....	3	1	11	3,700	5	17	2,610
Henry.....	2	2	99	44,541	33	208	69,156
Jackson.....	7	7	1,047	841,057	17	50	11,999
Jefferson.....	7	1	62	17,418	1	2	77
Jersey.....	5	.....	.....	.....	8	17	3,053
Johnson.....	7	.....	.....	.....	5	11	2,680
Kankakee.....	1	1	200	51,901	.....	.....	.....
Knox.....	2	1	77	36,902	34	174	52,306
LaSalle.....	1	13	3,496	1,777,438	22	205	117,072
Livingston.....	1	5	513	304,721	8	83	43,570
Logan.....	4	3	284	178,031	.....	.....	.....
Macon.....	4	2	169	69,070	1	124	40,650
Macoupin.....	5	13	2,453	2,063,572	6	43	11,681
Madison.....	6	15	2,432	1,932,996	13	59	23,275
Marion.....	6	5	1,032	878,106	1	11	3,715
Marshall.....	2	4	898	437,191	13	26	4,452
McDonough.....	3	1	58	13,984	46	162	35,287
McLean.....	4	2	389	166,472	1	11	500
Menard.....	3	8	553	430,683	5	26	8,085
Mercer.....	2	8	894	584,308	9	51	18,414

Table 18--Concluded.

COUNTY.	SHIPPING MINES.				LOCAL MINES.		
	Dist.	Mines.	Men.	Tons.	Mines.	Men	Tons.
Montgomery.....	5	5	566	419,810	.....	.....	.....
Morgan.....	5	.....	.....	.....	2	14	3,310
Peoria.....	3	22	935	699,167	50	282	125,093
Perry.....	7	16	1,254	777,182	7	31	12,443
Randolph.....	7	9	557	392,952	3	14	7,850
Rock Island.....	2	2	59	37,898	14	117	46,202
Saline.....	7	4	249	217,106	12	30	6,908
Sangamon.....	5	28	4,287	3,656,840	2	31	16,147
Schuyler.....	3	.....	.....	.....	20	80	18,240
Scott.....	5	.....	.....	.....	13	74	23,937
Shelby.....	4	1	154	88,117	7	64	11,914
Stark.....	2	.....	.....	.....	21	93	24,799
St. Clair.....	6	53	3,033	2,526,162	17	95	52,391
Tazewell.....	3	5	261	110,571	9	115	74,264
Vermilion.....	4	19	2,852	2,422,839	40	244	128,799
Wabash.....	7	.....	.....	.....	3	25	5,120
Warren.....	2	.....	.....	.....	17	62	15,534
Washington.....	7	2	80	31,981	1	9	961
Will.....	1	2	183	49,886	1	8	1,800
Williamson.....	7	18	2,336	2,001,859	11	31	11,833
Woodford.....	4	1	234	107,584	.....	.....	.....
54 Counties.....	.....	332	42,807	28,824,750	583	3,193	1,196,550

This accounts for the activity in coal mining by counties. Of the 54 supplying the coal of the State, 14 have no shipping and 7 no local mines; 9 counties having shipping mines give employment to over 2,000 men. Sangamon with 28 commercial mines employed 4,287 men; Bureau, 8 mines, 3,762 men; LaSalle, 13 mines, 3,496 men; Grundy, 12 mines, 3,254 men; St. Clair, 53 mines, 3,033 men. Bureau county mines average the largest number of men, 470 to each mine.

DISPOSITION OF THE OUTPUT.

The year's product was distributed as shown in the following table:
 TABLE 19.—*Disposition of the Output of Shipping Mines, by Districts, also Local Mines.*

DISTRICT.	Total output of all grades. Tons.	Tons shipped from mines.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons used and wasted at the mines.
First.....	3,540,698	3,068,704	113,939	187,178	140,877
Second	2,852,589	2,631,995	60,085	67,894	92,615
Third.....	2,064,379	1,926,370	11,583	71,328	55,098
Fourth.....	2,757,201	3,233,183	145,842	224,260	153,916
Fifth.....	6,140,222	5,496,832	198,717	236,287	208,386
Sixth	6,162,466	5,367,313	261,823	223,283	310,047
Seventh.....	4,307,195	3,919,872	164,108	67,728	155,487
Shipping mines	28,824,750	25,674,269	956,067	1,077,958	1,116,426
Local mines.....	1,196,550	.....	18,460	1,065,554	112,536
The State	30,021,300	25,674,269	974,557	2,143,512	1,228,962

There has been a slight increase in the tonnage shipped over that of last year. The supply of the shipping mines to the local trade has also increased about 20 per cent.

The distribution of the coal being reduced to percentages presents the following:

TABLE 20.—*Percentages of the Output of Shipping and Local Mines, also Percentages of the Distribution, by Districts, 1902.*

DISTRICT.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons to locomotives.	Tons sold to local trade.	Tons consumed or wasted at the mines.
First.....	12.28	87.52	3.22	5.28	3.98
Second	9.90	92.27	2.10	2.38	3.25
Third.....	7.16	93.31	.56	3.46	2.67
Fourth	13.04	86.05	3.88	5.97	4.10
Fifth.....	21.30	89.52	3.24	3.85	3.39
Sixth	21.38	87.10	4.25	3.62	5.03
Seventh.....	14.94	91.01	3.81	1.57	3.61
Shipping mines.....	100.00	89.07	3.30	2.74	3.89
Local mines.....	100.00	.....	1.54	89.05	9.41

This reveals that the shipping mines have loaded on to cars for shipment and supplied to locomotives at the mines over 92 per cent of the product, leaving less than 8 per cent about evenly divided between the local trade and that used or wasted at the mines. Each of the districts show an increase over last year in the tons shipped; the third shows an increase of 14 per cent, the second 9 per cent the other district from 2 to 6 per cent.

The productiveness of the coal producing counties and the disposal made of the output is presented as follows:

TABLE 21.—*Disposition of the Output of Shipping Mines by Counties and Districts.*

FIRST DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Grundy.....	1,356,752	1,294,871	.....	20,655	41,226
Kankakee.....	51,901	41,076	.....	3,117	7,708
LaSalle.....	1,777,438	1,470,465	101,303	127,892	77,778
Livingston.....	304,721	252,589	12,636	26,809	12,687
Will.....	49,886	39,703	.....	8,705	1,478
The district.....	3,540,698	3,098,704	113,939	187,178	140,877
Percentages	100.00	87.52	3.22	5.28	3.98
Local mines.....	189,026	.....	9.30	110,108	77,958

SECOND DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Bureau.....	1,711,749	1,599,352	26,984	30,902	54,511
Henry.....	44,541	38,778	.....	4,963	800
Knox.....	36,902	35,982	920	.....	.....
Marshall.....	437,191	377,424	30,500	16,134	13,133
Mercer.....	584,308	544,003	1,681	15,053	23,571
Rock Island.....	37,898	36,456	.....	842	600
The District.....	2,852,589	2,631,995	60,085	67,894	92,615
Percentages	100.00	92.27	2.10	2.38	3.25
Local mines.....	251,927	.....	.....	240,801	11,126

THIRD DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Fulton.....	806,274	760,681	10,554	13,731	21,308
Hancock.....	3,700	3,700	.....	.....	.....
McDonough.....	13,984	12,322	.....	.....	1,662
Menard.....	430,683	387,275	1,029	22,779	19,600
Peoria.....	699,167	674,100	.....	14,380	10,687
Tazewell.....	110,571	88,292	.....	20,438	1,841
The district.....	2,064,379	1,926,370	11,583	71,328	55,098
Percentages.....	100.00	93.31	.56	3.46	2.67
Local mines.....	349,084	.....	.....	345,891	3,193

FOURTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines	Tons sold to local trade.	Tons consumed or wasted at the mines.
Christian.....	725,088	573,758	57,428	47,624	46,278
Logan.....	178,031	100,433	26,328	33,314	16,956
Macon.....	69,070	51,535	.....	14,612	2,923
McLean.....	166,472	58,226	27,792	55,194	25,260
Shelby.....	83,117	58,706	12,083	8,450	8,878
Vermilion.....	2,422,839	2,301,425	17,100	56,533	47,781
Woodford.....	107,584	83,100	5,111	8,533	5,840
The district.....	3,757,201	3,233,183	145,842	224,260	153,916
Percentages.....	100.00	86.05	3.88	5.97	4.10
Local mines.....	182,663	.....	.....	173,017	9,646

FIFTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Macoupin.....	2,063,572	1,819,760	102,804	56,335	84,673
Montgomery.....	419,810	364,334	10,329	32,434	12,713
Sangamon.....	3,656,840	3,312,738	85,584	147,518	111,000
The district.....	6,140,222	5,496,832	198,717	236,237	208,386
Percentages.....	100.00	89.52	3.24	3.85	3.39
Local mines.....	73,164	.....	17,530	51,073	4,561

SIXTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Bond.....	100,740	85,749	463	9,308	5,220
Clinton.....	724,462	640,308	36,500	16,175	31,479
Madison.....	1,932,996	1,775,470	32,939	40,579	84,008
Marion.....	878,106	659,059	117,727	43,699	57,621
St. Clair.....	2,526,162	2,206,727	74,194	113,522	131,719
The district.....	6,162,466	5,367,313	261,823	223,283	310,047
Percentages.....	100.00	87.10	4.25	3.62	5.03
Local mines.....	79,381	.....	.....	75,401	3,980

SEVENTH DISTRICT.

County.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Gallatin.....	27,640	20,000	2,972	3,518	1,150
Hamilton.....	.....	.....	.....	.....	.....
Jackson.....	841,057	767,105	40,581	3,444	29,927
Jefferson.....	17,418	1,685	11,819	3,349	565
Johnson.....	.....	.....	.....	.....	.....
Perry.....	777,182	663,905	87,329	11,174	14,774
Randolph.....	392,952	367,470	7,417	7,223	10,842
Saline.....	217,106	189,968	13,200	11,900	2,038
Wabash.....	.....	.....	.....	.....	.....
Washington.....	31,981	17,115	.....	10,522	4,344
Williamson.....	2,001,859	1,892,624	790	16,598	91,847
The district.....	4,307,195	3,919,872	164,108	67,728	155,487
Percentages.....	100.00	91.01	3.81	1.57	3.61
Local mines.....	71,305	.....	.....	69,263	2,042

This exhibit sets forth all the vital information concerning the coal raised and the manner of its disposal, to clearly show the important part each county maintains or contributes to the industry.

The next matter to bring to notice is the transportation of the product of the coal mines to the markets of the country. This is set forth in the following table:

TABLE 22.—*Railroads which have hauled the Coal Output of Shipping Mines of the State and the Tonnage Contributed to each Road, by Counties—1902.*

Number.	RAILROADS AND COUNTIES.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE—	
		Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
1	Illinois Central—17 counties.....	6,063,478	272,711	100.00	100.00
	Williamson.....	1,335,772	790	22.03	29
	St. Clair.....	708,047	23,207	11.68	8.51
	Sangamon.....	661,576	8,050	10.91	2.95
	Jackson.....	612,634	40,581	10.10	14.89
	Marion.....	547,939	86,263	9.04	31.63
	Perry.....	502,435	24,360	8.29	8.93
	LaSalle.....	465,205	7,67	7.67	.....
	Madison.....	436,814	5,093	7.20	1.87
	Christian.....	210,085	9,119	3.46	3.35
	Macoupin.....	197,683	23,804	3.26	8.73
	Marshall.....	102,148	.....	1.68	.....
	Logan.....	80,738	20,333	1.33	7.46
	Randolph.....	76,689	.....	1.27	.....
	Shelby.....	58,706	12,083	.97	4.44
	McLean.....	23,226	12,792	.47	4.70
	Livingston.....	22,782	6,236	.38	2.25
	Washington.....	16,000	.....	.26	.....
2	Chicago & Eastern Illinois—2 counties.....	2,525,194	3,600	100.00	100.00
	Vermilion.....	1,968,342	3,600	77.95	100.00
	Williamson.....	556,852	.....	22.05	.....
3	Wabash—9 counties.....	2,100,792	84,480	100.00	100.00
	Sangamon.....	912,399	25,200	43.23	29.83
	Macoupin.....	721,679	34,191	34.18	40.47
	Vermilion.....	203,769	.....	9.65	.....
	Christian.....	176,938	15,037	8.38	17.80
	Montgomery.....	37,742	10,052	1.79	11.90
	Macon.....	32,405	.....	1.54	.....
	Livingston.....	12,662	.....	.60	.....
	LaSalle.....	8,500	.....	.41	.....
	Madison.....	4,698	.....	.22	.....
4	Chicago & Alton—9 counties.....	2,109,755	10,995	100.00	100.00
	Sangamon.....	1,136,890	.....	53.89	.....
	Macoupin.....	671,344	.....	31.83	.....
	Menard.....	157,250	.....	7.45	.....
	Will.....	39,703	.....	1.88	.....
	Grundy.....	38,639	.....	1.83	.....
	LaSalle.....	33,961	.....	1.61	.....
	Logan.....	20,695	5,995	.98	54.52
	McLean.....	10,000	5,000	.47	45.48
	Livingston.....	1,280	.....	.06	.....
5	Chicago, Burlington & Quincy—10 counties..	1,760,942	45,934	100.00	100.00
	LaSalle.....	575,157	21,000	32.66	45.72
	Fulton.....	507,733	.....	28.83	.....
	Mercer.....	329,260	1,131	18.70	2.46
	Bureau.....	176,015	6,273	10.60	13.65
	Peoria.....	125,850	.....	7.15	.....
	Henry.....	30,751	.....	1.74	.....
	McDonough.....	12,322	.....	.70	.....
	Hancock.....	3,700	.....	.21	.....
	Livingston.....	154	.....	.01	.....
	Scott.....	.....	17,530	.....	38.17

Table 22--Continued.

Number.	RAILROADS AND COUNTIES.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE—	
		Shipment.	Locomo- tives.	Shipped.	Supplied to locomo- tives.
6	Elgin, Joliet & Eastern—1 county.....	1,214,308	.....	100.00	.....
	Grundy.....	1,214,308	.....	100.00	.....
7	Baltimore & Ohio Southwestern—5 counties.	1,122,189	75,289	100.00	100.00
	Clinton.....	480,489	36,500	42.82	48.48
	St. Clair.....	339,052	355	30.21	.47
	Sangamon.....	159,066	14,280	14.17	18.97
	Christian.....	135,482	24,154	12.08	32.08
	Marion.....	8,100	.....	.72	.....
8	Chicago, Peoria & St. Louis—4 counties.....	1,021,555	42,209	100.00	100.00
	Madison.....	395,036	4,686	38.67	11.10
	Sangamon.....	314,579	36,494	30.79	86.46
	Menard.....	230,025	1,029	22.52	2.44
	Macoupin.....	81,915	.....	8.02	.....
9	Chicago & Northwestern—1 county.....	1,007,838	12,966	100.00	100.00
	Bureau.....	1,007,838	12,966	100.00	100.00
10	Cleve., Cin., Chi. & St. L.—7 counties.....	795,141	53,802	100.00	100.00
	Montgomery.....	276,888	.....	34.82	.....
	Saline.....	189,968	13,200	23.89	24.54
	Vermilion.....	129,314	13,500	16.26	25.09
	Macoupin.....	117,718	12,984	14.80	24.13
	Christian.....	61,253	9,118	6.45	16.95
	Tazewell.....	20,000	.....	2.52	.....
	McLean.....	10,000	5,000	1.26	9.29
11	Chicago, Rock Island & Pacific—6 counties ..	720,860	89,528	100.00	100.00
	LaSalle.....	251,312	81,233	34.86	90.74
	Bureau.....	239,483	7,745	33.22	8.65
	Mercer.....	214,743	550	29.79	.61
	Henry.....	8,027	.....	1.12	.....
	Marshall.....	4,853	.....	.67	.....
	Rock Island.....	2,442	.....	.34	.....
12	Southern Railroad—2 counties.....	699,453	26,047	100.00	100.00
	St. Clair.....	539,634	26,047	77.15	100.00
	Clinton.....	159,819	.....	22.85	.....
13	Vandalia Line—2 counties.....	635,895	23,160	100.00	100.00
	Madison.....	626,330	23,160	98.50	100.00
	Macon.....	9,565	.....	1.50	.....
14	Louisville & Nashville—4 counties.....	630,094	38,776	100.00	100.00
	St. Clair.....	607,294	23,985	96.38	61.86
	Gallatin.....	20,000	2,972	3.17	7.66
	Jefferson.....	1,685	11,819	.27	30.48
	Washington.....	1,115	.....	.18	.....
15	Mobile & Ohio—4 counties.....	554,956	59,369	100.00	100.00
	Randolph.....	259,294	.....	46.72	.....
	Jackson.....	154,471	.....	27.84	.....
	Perry.....	128,491	58,769	23.15	98.99
	St. Clair.....	12,700	600	2.29	1.01

Table 22—Continued.

Number.	RAILROADS AND COUNTIES.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE—	
		Shipment.	Locomo- tives.	Shipped.	Supplied to locomo- tives.
16	Indiana, Illinois & Iowa—4 counties.....	456,793	.....	100.00	.....
	Livingston.....	191,133	.....	41.84	.....
	Bureau.....	176,016	.....	38.54	.....
	LaSalle.....	48,568	.....	10.63	.....
	Kankakee.....	41,076	.....	8.99	.....
17	Atchison, Topeka & Santa Fé—5 counties....	374,572	20,361	100.00	100.00
	Marshall.....	135,211	15,250	36.10	74.90
	Woodford.....	88,100	5,111	23.62	25.10
	LaSalle.....	87,759	.....	23.43	.....
	Grundy.....	41,924	.....	11.19	.....
	Livingston.....	21,578	.....	5.76	.....
18	Toledo, Peoria & Western—3 counties.....	307,479	16,954	100.00	100.00
	Peoria.....	204,008	.....	66.35	.....
	Fulton.....	100,471	10,554	32.68	62.25
	Livingston.....	3,000	6,400	.97	37.75
19	Iowa Central—2 counties.....	257,794	.....	100.00	.....
	Fulton.....	138,237	.....	53.62	.....
	Peoria.....	119,557	.....	46.38	.....
20	Peoria & Pekin Union—2 counties.....	241,821	.....	100.00	.....
	Peoria.....	191,431	.....	79.16	.....
	Tazewell.....	50,390	.....	20.84	.....
21	St. Louis, Troy & Eastern—1 county.....	239,660	.....	100.00	.....
	Madison.....	239,660	.....	100.00	.....
22	Jacksonville & St. Louis—4 counties.....	189,983	61,988	100.00	100.00
	Marion.....	103,021	31,464	51.23	50.76
	Bond.....	42,875	.....	22.57	.....
	Macoupin.....	25,861	30,524	13.35	49.24
	Montgomery.....	18,726	.....	9.85	.....
23	Toluca, Marquette & Northern—1 county....	135,212	15,250	100.00	100.00
	Marshall.....	135,212	15,250	100.00	100.00
24	Toledo, St. Louis & Western—3 counties.....	128,321	740	100.00	100.00
	Madison.....	55,469	.....	43.23	.....
	Bond.....	42,574	463	33.41	62.57
	Montgomery.....	29,978	277	23.36	37.43
25	Pawnee—1 county.....	128,238	1,560	100.00	100.00
	Sangamon.....	128,238	1,560	100.00	100.00
26	Galesburg & Great Eastern—1 county.....	35,982	920	100.00	100.00
	Knox.....	35,982	920	100.00	100.00
27	Davenport, Rock Island & N-W.—1 county....	34,014	.....	100.00	.....
	Rock Island.....	34,014	.....	100.00	.....
28	Peoria & Pekin Terminal—1 county.....	33,254	.....	100.00	.....
	Peoria.....	33,254	.....	100.00	.....
29	Wabash, Chester & Western—1 county.....	32,979	4,200	100.00	100.00
	Perry.....	32,979	4,200	100.00	100.00

Table 22—Concluded.

Number.	RAILROADS AND COUNTIES.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE—	
		Shipment.	Locomo- tives.	Shipped.	Supplied to locomo- tives.
30	Illinois Southern—1 county	31,487	7,417	100.00	100.00
	Randolph.....	31,487	7,417	100.00	100.00
31	Lake Erie & Western—2 counties.....	27,902	5,000	100.00	100.00
	Tazewell	17,902		64.16	
	McLean.....	10,000	5,000	35.84	100.00
32	Illinois Terminal—1 county.....	17,463		100.00	
	Madison.....	17,463		100.00	
33	Fulton Co. Narrow Gauge—1 county.....	14,240		100.00	
	Fultonl.....	14,240		100.00	
34	Indiana, Decatur & Western—1 county.....	9,565		100.00	
	Macon.....	9,565		100.00	
35	Quincy, Carrollton & St. Louis—2 counties..	5,060	1,301	100.00	100.00
	Macoupin	4,060	1,301	80.24	100.00
	Montgomery.....	1,000		19.76	
	Total tons hauled by 35 railroads.....	25,674,269	974,557		

The Illinois Central railroad traverses 17 of the coal producing counties of the State and has transported to the markets nearly three times the tonnage of any other road—in all, 24 per cent of the total tons shipped. Williamson county contributes the largest tonnage to this road, being 22 per cent of the total tons. The Chicago & Eastern Illinois railroad is credited with the next largest haulage, taking from only two counties. Vermilion county supplies the largest number of tons shipped by any one county over one road. The Chicago, Burlington & Quincy railroad draws from ten counties; the Wabash and Chicago & Alton roads each took shipment from nine counties.

A further setting forth of the transporting of the coal produced by the State is shown in the following table:

TABLE 23.—*Counties which have Produced the Commercial Coal of the State and the Tonnage Delivered to the Several Railroads in each, for Transportation.*

Number.	Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
1	Sangamon—6 roads.....		3,312,738
	Chicago & Alton.....	1,136,880	34.32
	Wabash.....	912,399	27.54
	Illinois Central.....	661,576	19.97
	Chicago, Peoria & St. Louis.....	314,579	9.50
	Baltimore & Ohio.....	159,066	4.80
	Pawnee.....	128,238	3.87
2	Vermillion—3 roads.....		2,301,425
	Chicago & Eastern Illinois.....	1,968,342	85.53
	Wabash.....	203,769	8.85
	Cleveland, Cincinnati, Chicago & St. Louis.....	129,314	5.62
3	St. Clair—5 roads.....		2,206,727
	Illinois Central.....	708,047	32.09
	Louisville & Nashville.....	607,294	27.52
	Southern Railroad.....	539,634	24.45
	Baltimore & Ohio Southwestern.....	339,052	15.36
	Mobile & Ohio.....	12,700	.58
4	Williamson—2 roads.....		1,892,624
	Illinois Central.....	1,335,772	70.58
	Chicago & Eastern Illinois.....	556,852	29.42
5	Macoupin—7 roads.....		1,819,760
	Wabash.....	721,679	39.66
	Chicago & Alton.....	671,344	36.89
	Illinois Central.....	197,683	10.86
	Cleveland, Cincinnati, Chicago & St. Louis.....	117,718	6.47
	Chicago, Peoria & St. Louis.....	81,915	4.50
	Jacksonville & St. Louis.....	25,361	1.40
	Quincy, Carrolton & St. Louis.....	4,060	.22
6	Madison—7 roads.....		1,775,470
	Vandalia Line.....	626,330	35.28
	Illinois Central.....	436,814	24.60
	Chicago, Peoria & St. Louis.....	395,036	22.25
	St. Louis, Troy & Eastern.....	239,660	13.50
	Toledo, St. Louis & Western.....	55,469	3.12
	Illinois Terminal R. R.....	17,463	.98
	Wabash.....	4,698	.27
7	Bureau—4 roads.....		1,599,352
	Chicago & Northwestern.....	1,007,838	63.01
	Chicago, Rock Island & Pacific.....	239,483	14.97
	Indiana, Illinois & Iowa.....	176,016	11.01
	Chicago, Burlington & Quincy.....	176,015	11.01
8	LaSalle—7 roads.....		1,470,465
	Chicago, Burlington & Quincy.....	575,157	39.11
	Illinois Central.....	465,205	31.64
	Chicago, Rock Island & Pacific.....	251,312	17.09
	Atchison, Topeka & Santa Fé.....	87,759	5.97
	Indiana, Illinois & Iowa.....	48,568	3.30
	Chicago & Alton.....	33,964	2.31
	Wabash.....	8,500	.58

Table 23—Continued.

Number.	Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
9	Grundy—3 roads.....		1,294,871
	Elgin, Joliet & Eastern.....	1,214,308	93.78
	Atchison, Topeka & Santa Fé.....	41,924	3.24
	Chicago & Alton.....	38,639	2.98
10	Jackson—2 roads.....		767,105
	Illinois Central.....	612,634	79.86
	Mobile & Ohio.....	154,471	20.14
11	Fulton—4 roads.....		760,681
	Chicago, Burlington & Quincy.....	507,733	66.75
	Iowa Central.....	138,237	18.17
	Toledo, Peoria & Western.....	100,471	13.21
	Fulton Co. Narrow Gauge.....	14,240	1.87
12	Peoria—5 roads.....		674,100
	Toledo, Peoria & Western.....	204,008	30.26
	Peoria & Pekin Union.....	191,431	28.40
	Chicago, Burlington & Quincy.....	125,850	18.67
	Iowa Central.....	119,557	17.74
	Peoria & Pekin Terminal.....	33,254	4.93
13	Perry—3 roads.....		663,905
	Illinois Central.....	502,435	75.68
	Mobile & Ohio.....	128,491	19.35
	Wabash, Chester & Western.....	32,979	4.97
14	Marion—3 roads.....		659,059
	Illinois Central.....	547,938	83.14
	Jacksonville & St. Louis.....	103,021	15.63
	Baltimore & Ohio.....	8,100	1.23
15	Clinton—2 roads.....		640,308
	Baltimore & Ohio Southwestern.....	480,489	75.04
	Southern Railway Co.....	159,819	24.96
16	Christian—4 roads.....		573,758
	Illinois Central.....	210,085	36.62
	Wabash.....	176,338	30.84
	Baltimore & Ohio Southwestern.....	135,442	23.61
	Cleveland, Cincinnati, Chicago & St. Louis.....	51,253	8.93
17	Mercer—2 roads.....		544,003
	Chicago, Burlington & Quincy.....	329,290	60.53
	Chicago, Rock Island & Pacific.....	214,743	39.47
18	Menard—2 roads.....		387,275
	Chicago, Peoria & St. Louis.....	230,025	59.40
	Chicago & Alton.....	157,250	40.60
19	Marshall—4 roads.....		377,424
	Toluca, Marquette & Northern.....	135,212	35.83
	Atchison, Topeka & Santa Fé.....	135,211	35.83
	Illinois Central.....	102,148	27.06
	Chicago, Rock Island & Pacific.....	4,853	1.28
20	Randolph—3 roads.....		367,470
	Mobile & Ohio.....	259,294	70.56
	Illinois Central.....	76,689	20.87
	Illinois Southern.....	31,487	8.57

Table 23—Continued.

Number.	Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
21	Montgomery—5 roads.....		364,334
	Cleveland, Cincinnati, Chicago & St. Louis.....	276,888	76.00
	Wabash.....	37,742	10.36
	Toledo, St. Louis & Western.....	29,978	8.23
	Jacksonville & St. Louis.....	18,726	5.14
	Quincy, Carrollton & St. Louis.....	1,000	.27
22	Livingston—7 roads.....		252,589
	Indiana, Illinois & Iowa.....	191,133	75.67
	Illinois Central.....	22,782	9.02
	Atchison, Topeka & Santa Fé.....	21,578	8.54
	Wabash.....	12,662	5.01
	Toledo, Peoria & Western.....	3,000	1.19
	Chicago & Alton.....	1,280	.51
	Chicago, Burlington & Quincy.....	154	.06
23	Saline—1 road.....		189,968
	Cleveland, Cincinnati, Chicago & St. Louis.....	189,968	100.00
24	Logan—2 roads.....		101,433
	Illinois Central.....	80,738	79.60
	Chicago & Alton.....	20,695	20.40
25	Tazewell—3 roads.....		88,292
	Peoria & Pekin Union.....	50,390	57.07
	Cleveland, Cincinnati, Chicago & St. Louis.....	20,000	22.65
	Lake Erie & Western.....	17,902	20.28
26	Woodford—1 road.....		88,100
	Atchison, Topeka & Santa Fé.....	88,100	100.00
27	Bond—2 roads.....		85,749
	Jacksonville & St. Louis.....	42,875	50.00
	Toledo, St. Louis & Western.....	42,874	50.00
28	Shelby—1 road.....		58,706
	Illinois Central.....	58,706	100.00
29	McLean—4 roads.....		58,226
	Illinois Central.....	28,226	48.49
	Chicago & Alton.....	10,000	17.17
	Cleveland, Cincinnati, Chicago & St. Louis.....	10,000	17.17
	Lake Erie & Western.....	10,000	17.17
30	Macon—3 roads.....		51,535
	Wabash.....	32,405	62.88
	Indiana, Decatur & Western.....	9,565	18.56
	Vandalia Line.....	9,565	18.56
31	Kankakee—1 road.....		41,076
	Indiana, Illinois & Iowa.....	41,076	100.00
32	Will—1 road.....		39,703
	Chicago & Alton.....	39,703	100.00
33	Henry—2 roads.....		38,778
	Chicago, Burlington & Quincy.....	30,751	79.30
	Chicago, Rock Island & Pacific.....	8,027	20.70

Table 23—Concluded.

Number.	Counties and Railroads.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
34	Rock Island—2 roads.....	.....	36,456
	Davenport, Rock Island & Northwestern.....	34,014	93.30
	Chicago, Rock Island & Pacific.....	2,442	6.70
35	Knox—1 road.....	.....	35,982
	Galesburg & Great Eastern.....	35,982	100.00
36	Gallatin—1 road.....	.....	20,000
	Louisville & Nashville.....	20,000	100.00
37	Washington—2 roads.....	.....	17,115
	Illinois Central.....	16,000	93.49
	Louisville & Nashville.....	1,115	6.51
38	McDonough—1 road.....	.....	12,322
	Chicago, Burlington & Quincy.....	12,322	100.00
39	Hancock—1 road.....	.....	3,700
	Chicago, Burlington & Quincy.....	3,700	100.00
40	Jefferson—1 road.....	.....	1,685
	Louisville & Nashville.....	1,685	100.00
	The State—40 counties.....	25,674,269	.....

Here is disclosed the activity of the different counties of the State in the coal industry and the relative part taken by the railroads in moving this most useful production of our State. Sangamon county leads all the other counties by over 1,000,000 tons in its contribution to the commercial centers of trade. Vermilion and St. Clair follow, each with over 2,000,000 tons; while Williamson, Macoupin, Madison, Bureau, LaSalle and Grundy, in the order named, each send over one and a quarter million tons to the markets.

The conclusion of this vitalizing and important industry is reached in the following exhibit:

TABLE 24.—*Illinois Coal Delivered to Illinois Railroads at the Mines for Shipment, and for use on Locomotives—1902.*

Number.	RAILROADS.	Number of Counties.	TONS DELIVER'D TO EACH ROAD FOR—		Total tons.
			Ship-ment.	Loco-mo-tives.	
1	Illinois Central.....	17	6,063,478	272,711	6,336,189
2	Chicago & Eastern Illinois.....	2	2,525,194	3,600	2,528,794
3	Wabash.....	9	2,110,792	84,480	2,195,272
4	Chicago & Alton.....	9	2,109,755	10,995	2,120,750
5	Chicago, Burlington & Quincy.....	10	1,760,942	39,661	1,800,603
6	Elgin, Joliet & Eastern.....	1	1,214,308	.....	1,214,308
7	Baltimore & Ohio Southwestern.....	5	1,122,189	75,289	1,197,478
8	Chicago, Peoria & St. Louis.	4	1,021,555	42,209	1,063,764
9	Chicago & Northwestern	1	1,007,838	12,966	1,020,804
10	Cleveland, Cincinnati, Chicago & St. Louis.....	7	795,141	53,802	848,943
11	Chicago, Rock Island & Pacific.....	6	720,860	89,528	810,388
12	Southern Railroad Co.....	2	699,453	26,047	725,500
13	Vandalia Line.....	2	635,895	23,160	659,055
14	Louisville & Nashville.....	4	630,094	38,776	668,870
15	Mobile & Ohio.....	4	554,956	59,369	614,325
16	Indiana, Illinois & Iowa.....	4	456,793	.....	456,793
17	Atchison, Topeka & Santa Fé.....	5	374,572	20,361	394,933
18	Toledo, Peoria & Western.....	3	307,479	16,954	324,433
19	Iowa Central.....	2	257,794	.....	257,794
20	Peoria & Pekin Union.....	2	241,821	.....	241,821
21	St. Louis, Troy & Eastern.....	1	239,660	.....	239,660
22	Jacksonville & St. Louis.....	4	189,983	61,988	251,971
23	Toluca, Marquette & Northern.....	1	135,212	15,250	150,462
24	Toledo, St. Louis & Western.....	3	128,321	740	129,061
25	Pawnee.....	1	128,238	1,560	129,798
26	Galesburg & Great Eastern.....	1	35,982	920	36,902
27	Davenport, Rock Island & Northwestern.....	1	34,014	.....	34,014
28	Peoria & Pekin Terminal.....	1	33,254	.....	33,254
29	Wabash, Chester & Western.....	1	32,979	4,200	37,179
30	Illinois Southern.....	1	31,487	7,417	38,904
31	Lake Erie & Western.....	2	27,902	5,000	32,902
32	Illinois Terminal R. R.....	1	17,463	.....	17,463

Table 24—Concluded.

Number.	RAILROADS.	Number of Counties.	TONS DELIVER'D TO EACH ROAD FOR—		Total tons.
			Ship-ment.	Loco-motives.	
33	Fulton Co. Narrow Gauge.....	1	14,240	.....	14,240
34	Indiana, Decatur & Western.....	1	9,565	.....	9,565
35	Quincy, Carrolton & St. Louis.....	2	5,060	1,301	6,361
Totals .....		.....	25,674,269	968,284	26,642,553

The foregoing sets forth concisely the efficiency of the railroads in putting the production of the mines on the market, also revealing to what extent these roads are consumers of coal. By reference it will be observed that nearly 1,000,000 tons of coal have been supplied to locomotives at the mines. This, however, does not account for all the coal used by these roads, as large quantities are hauled by different roads to supply engines at convenient points along the lines, where coal is not to be had at the mine chutes.

DAYS OF ACTIVE OPERATION.

The mines, men and days in the operation of the collieries of the State are shown in the following table:

TABLE 25.—*Days of Active Operation, by Districts.*

DISTRICT.	MINES, MEN AND AVERAGE WORKING DAYS.								
	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
First.....	77	8,035	218.8	33	7,646	246.20	44	339	196.
Second.....	176	6,583	173.26	25	5,789	237.84	151	794	162.57
Third	241	4,268	180.50	56	3,372	208.90	185	896	171.88
Fourth.....	84	5,679	181.06	34	5,226	206.52	50	453	163.74
Fifth.....	99	7,564	161.35	46	7,306	213.70	53	258	115.92
Sixth.....	111	7,929	209.87	80	7,764	210.73	31	165	207.64
Seventh.....	127	5,947	148.62	58	5,704	177.65	69	243	121.90
The State,	915	46,005	179.5	332	42,807	210.2	583	3,198	161.9

There has been an increase in the number of days worked, in a mines, over last year; the increase at the shipping mines was six days, with an increase of nearly 2,000 men. The shipping mines in the first district were in operation 246.2 days, with 7,646 men at work; in the seventh district the number of days was 177.7 with 5,704 men.

The number of mines and days for a series of ten years, by districts, is shown as follows:

TABLE 26.—*Days of Active Operation of Shipping Mines for a Series of Ten Years.*

YEAR.	FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVENTH.		THE STATE.	
	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.
1893.....	38	220	26	228	80	215	56	251	101	233	....	.....	....	.....	301	229.6
1894.....	35	151.5	26	171	81	182.9	63	194.7	90	186.9	....	.....	....	.....	235	183.1
1895.....	26	159.4	28	176.1	66	173	64	188.5	94	192.6	....	.....	....	.....	278	182.2
1896.....	38	166	46	198	27	157	40	210	50	197	72	196	49	164	322	186
1897.....	35	166.9	46	183.2	19	158.6	36	207.7	50	202.1	73	194.8	51	165.5	310	185.5
1898.....	39	144.5	48	171.1	21	187.5	39	190	51	172.3	72	170.6	59	186.8	329	174.7
1899.....	37	208	45	211	23	185	37	221.6	50	201.6	72	201	57	206.6	321	205.7
1900.....	44	238	20	234	55	201	34	210	44	219	73	217	53	197	323	214
1901.....	39	235.5	26	202	53	188	33	185.7	46	207	77	223.6	57	182.4	331	204.4
1902.....	33	246.2	25	237.8	56	209	34	206.5	46	213.7	80	210.7	58	177.7	332	210.2

The general activity in the coal trade during the year is shown in the increased number of days worked at the shipping mines. The second district shows an increase of 36 days over last year, the third and fourth 21 days each, the first district 10, the fifth 6; the sixth shows a decrease of 13 days and the seventh 5. Both of the latter, however, have a greater increase in the number of men employed.

AVERAGE VALUE OF COAL.

The total tons of coal, as graded, and the prices per ton of each grade, are shown in the following table, by districts:

TABLE 27.—*Total Tons and Average Value of the Different Grades of Coal at the Shipping and Local Mines, by Districts—1902, 1901, 1900.*

DISTRICT.	ALL GRADES.		LUMP COAL.		MINE RUN COAL.	
	Total tons.	Average value per ton.	Total tons.	Average value per ton.	Total tons.	Average value per ton.
First.....	3,540,698	\$1.128	2,240,426	\$1.327	277,229	\$1.243
Second	2,852,589	1.257	1,994,748	1.489	176,784	1.293
Third	2,064,379	1.005	1,152,136	1.24	418,216	0.938
Fourth	3,757,201	0.946	1,015,000	1.275	2,115,488	0.91
Fifth	6,140,222	0.826	2,902,172	1.017	1,581,975	0.857
Sixth	6,162,466	0.753	3,452,056	0.94	1,219,641	0.774
Seventh.....	4,307,195	0.824	1,441,962	1.03	963,347	0.856
The State.....	28,824,750	\$0.942	14,198,500	\$1.173	6,752,680	\$0.90
Local mines....	1,196,550	\$1.350	843,173	\$1.542	233,524	\$1.174
1901.....	26,635,319	\$0.9543	13,321,124	\$1.181	6,582,740	\$0.919
1900.....	25,153,929	\$0.8949	13,927,899	\$1.099	5,554,417	\$0.794

TABLE 27.—*Total Tons and Average Value of the Different Grades of Coal at the Shipping and Local Mines, by Districts—1902, 1901, 1900—Concluded.*

DISTRICT.	EGG COAL.		NUT COAL.		PEA COAL.		SLACK COAL.	
	Total tons.	Average value per ton.	Total tons.	Average value per ton.	Total tons.	Average value per ton.	Total tons.	Av. value per ton.
First.....	112,728	\$1.249	105,493	\$1.029	774,061	\$0.51	30,761	\$0.20
Second	20,590	1.45	71,941	1.123	294,312	0.547	294,214	0.39
Third.....	34,759	1.14	132,103	0.693	243,132	0.396	84,033	0.34
Fourth.....	12,916	1.08	118,379	0.96	414,454	0.465	80,964	0.15
Fifth.....	74,215	0.932	262,859	0.767	1,101,116	0.417	217,885	0.156
Sixth	13,042	1.055	367,767	0.616	852,054	0.41	257,906	0.139
Seventh.....	408,829	0.937	504,117	0.705	863,648	0.556	125,292	0.155
The State..	677,079	\$1.022	1,562,659	\$0.764	4,542,777	\$0.471	1,091,055	\$0.228
Local mines	3,906	\$1.478	23,797	\$1.10	61,455	\$0.576	30,695	\$0.322
1901.....	486,596	\$1.086	1,217,127	\$0.808	3,667,591	\$0.436	1,060,141	\$0.269
1900.....	495,637	\$0.94	1,323,582	\$0.695	2,811,520	\$0.418	1,041,574	\$0.221

Here it will be noticed a complete separation has been made between the shipping and local mines. Lump coal shows less than one cent a ton from last year. This grade at the local mines, which constitutes 73 per cent of the coal from these mines, sold for \$1.54 per ton; this is 34 cents per ton more than the same grade at the shipping mines. This grade, at the last named mines, makes up about one-half of their total output, and has been the proportion of lump coal put on the market for the past three years. It will be noted that with the exception of the grade known as slack, which is less than 4 per cent of the output of the shipping mines, the entire product goes to the markets of the country.

The following presentation is made of the tonnage and average value per ton for a series of 21 years:

TABLE 28.—*Average Value of Lump Coal Per Ton at the Mine for a Series of Twenty-one Years—1882-1902.*

Year.	Tons of lump coal produced.	Average value per ton.	Year.	Tons of lump coal produced.	Average value per ton.
1882.....	9,115,653	\$1.51	1893.....	16,112,899	\$1.025
1883.....	10,030,991	1.48	1894.....	13,865,284	1.009
1884.....	10,101,005	1.26	1895.....	14,045,962	0.932
1885.....	9,791,874	1.17	1896.....	13,990,924	0.899
1886.....	9,246,435	1.10	1897.....	14,672,241	0.852
1887.....	10,278,890	1.085	1898.....	14,208,795	0.918
1888.....	11,855,188	1.123	1899.....	16,008,109	0.9186
1889.....	11,597,963	1.078	1900.....	13,927,899	1.099
1890.....	12,638,364	1.019	1901.....	13,321,124	1.181
1891.....	12,900,224	1.008	1902.....	*14,198,500	1.173
1892.....	14,730,963	1.029			

* Shipping mines.

The publishing of the several grades of coal produced has now been made for three years. However, the classification of the grade known as lump, giving quantity and value, has been continued as shown above. The further separation, giving the product of shipping mines, has been made and will be continued in future reports.

MINE EMPLOYEES.

In the following table will be found the grouping of the different employés in and about the mines of the State.

TABLE 29.—*Classification of Employés in the Shipping Mines, by Districts, with the Employés in Local Mines.*

DISTRICT.	ALL EMPLOYEES.					
	UNDER GROUND.				Above ground.	Total.
	Miners.	Other employés.	Boys.	Total.		
First.....	5,832	1,086	226	7,144	502	7,646
Second	4,214	936	214	5,364	425	5,789
Third	2,426	500	105	3,031	341	3,372
Fourth.....	3,546	949	169	4,664	562	5,226
Fifth.....	4,962	1,347	259	6,568	738	7,306
Sixth	5,471	1,250	241	6,962	802	7,764
Seventh	3,914	998	135	5,047	657	5,704
The State.....	30,365	7,066	1,349	38,780	4,027	42,807
Local mines.....	2,510	180	48	2,738	460	3,198
Total.....	32,875	7,273	1,397	41,518	4,487	46,005

Remarking only on those employed at the shipping mines and working under ground, it is found that 78 per cent are miners proper, 18 per cent other employés and 4 per cent boys.

Those employed as miners constitute 71 per cent of the total number working in and about the mines, while 90 per cent are at work under ground.

The number employed at the mines for a series of 20 years is shown in the following table by districts:

TABLE 30.—*Employés in Coal Mines of the State for a Series of Twenty Years, by Districts.*

YEAR.	DISTRICTS.							
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1883.....	7,565	3,211	4,070	4,417	4,675	.....	.....	23,939
1884.....	8,013	3,616	5,018	4,781	4,147	.....	.....	25,575
1885.....	7,463	3,391	5,213	4,950	4,429	.....	.....	25,446
1886.....	7,613	3,599	4,870	5,197	4,567	.....	.....	25,846
1887.....	7,915	4,068	4,903	4,934	4,984	.....	.....	26,804
1888.....	8,623	4,914	5,250	5,086	5,537	.....	.....	29,410
1889.....	9,014	4,498	5,117	5,679	5,764	.....	.....	30,076
1890.....	8,258	4,099	5,171	5,685	5,361	.....	.....	28,574
1891.....	9,128	5,089	6,458	5,881	6,395	.....	.....	32,951
1892.....	9,572	4,865	6,453	6,542	6,200	.....	.....	33,632
1893.....	8,831	5,974	6,964	7,021	6,780	.....	.....	35,390
1894.....	10,280	6,713	7,112	7,750	6,621	.....	.....	38,477
1895.....	9,644	7,184	6,607	8,005	7,190	.....	.....	38,630
1896.....	9,380	7,103	2,134	4,467	5,758	4,374	3,816	37,032
1897.....	7,632	6,872	1,635	4,021	5,672	4,100	3,856	33,788
1898.....	7,377	6,799	1,800	4,030	6,093	4,662	4,265	35,026
1899.....	7,498	6,631	1,799	4,655	6,401	5,008	4,999	36,991
1900.....	7,722	5,693	3,864	5,545	5,983	5,885	4,692	39,384
1901.....	7,872	6,306	3,760	6,950	6,837	6,871	5,547	44,143
1902.....	7,646	5,789	3,372	5,226	7,306	7,774	5,704	42,807
Local mines.....	389	794	896	453	258	165	243	3,198
Totals.....	8,035	6,583	4,268	5,679	7,564	7,939	5,947	46,005

In this showing also, those employed at the shipping mines are separate from those at the local mines, the former being 93 per cent of all employés. The second and third districts having the greater proportion of local mines, therefore employ over 50 per cent of the total number of men working at these mines.

PRICES PAID FOR MINING.

The following table gives the tons mined, manner of mining and the prices paid in the different districts and for the State for reducing the coal.

TABLE 31.—*Average Prices Paid for Mining by Hand and with Machine, at Shipping and Local Mines, by Districts—1902.*

DISTRICT.	MINING BY HAND.					MACHINE MINING.	
	Shipping Mines—Gross Weight.		Local Mines—Screened.			Gross Weight.	
	Tons.	Price per ton.	Tons.	Price per ton.	Tons paid for by the day.	Tons.	Price per ton.
First.....	3,538,440	\$0.73	187,026	\$0.67	2,000	2,258	\$0.56
Second.....	2,848,546	0.72	251,927	0.86	.....	*4,043	.....
Third.....	2,051,990	0.555	347,971	0.77	1,113	12,389	0.45
Fourth.....	3,532,147	0.52	80,818	0.585	101,845	165,054	0.404
Fifth.....	3,846,141	0.49	64,016	0.875	.....	2,303,229	0.42
Sixth.....	3,216,802	0.482	79,381	0.538	.....	2,945,664	0.42
Seventh.....	3,092,746	0.461	71,305	0.50	.....	1,214,449	0.365
The State.....	22,186,812	\$0.5635	1,082,444	\$0.723	104,958	6,647,086	\$0.395

* Paid \$2.10 per day.

For the shipping mines it is found that 77 per cent of the output is mined by hand and by gross weight. The prices paid per ton range from 73 cents in the first district to 46 in the seventh. The prices paid for mining screened coal are confined entirely to the local mines. For machine mining, which is almost entirely confined to the fifth, sixth and seventh districts, the prices have but slight variation, the average being 39.5 cents a ton.

PAYMENT OF WAGES.

The frequency of the payment of wages is presented in the following table:

TABLE 32.—*Frequency of the Payment of Wages at Shipping and Local Mines, by Districts—1902.*

DISTRICT.	PAYMENTS MADE.								
	WEEKLY.			SEMI-MONTHLY.			MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....				32	7,616	3,540,698			
Second.....				24	5,760	2,842,699	1	29	9,890
Third.....	1	18	7,060	54	3,354	2,057,319			
Fourth.....				34	5,226	3,757,201			
Fifth.....				46	7,285	6,136,793	1	21	3,429
Sixth.....	3	71	61,237	78	7,693	6,101,229			
Seventh.....				58	5,704	4,307,195			
Shipping mines.	4	89	68,297	326	42,668	28,743,134	2	50	13,319
Local mines.....	426	2,005	484,075	151	1,091	685,353	6	102	27,122
The State.....	430	2,094	552,372	477	43,759	29,433,487	8	152	30,441

The method of semi-monthly payments of wages is practically universal at the mines in this State. Over 95 per cent of the men receive their wages twice a month.

The subject is further illustrated in the following:

TABLE 33.—*Percentages of Mines, Men and Tons in Reference to Payment of Wages, for a Series of Ten Years.*

YEAR.	WAGES PAID WEEKLY.			WAGES PAID SEMI-MONTHLY.			WAGES PAID MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	67	27.6	26.2	25	56	56.4	8	16.4	23.4
1894.....	43	11.7	9.7	46	66.6	67.2	11	21.7	23.
1895.....	31	6.5	4.2	57	78.3	74.4	12	15.2	21.4
1896.....	49	7.8	5.3	37.5	74.6	12	12	17.6	21.2
1897.....	46.78	6.91	4.34	39.04	74.69	73.71	14.18	18.4	21.9
1898.....	32.23	5.36	4.99	62.32	90.25	89.78	5.45	4.38	5.23
1899.....	24.75	4.67	3.04	71.54	93.02	94.75	3.71	2.31	2.21
1900.....	33	4.12	2.57	64.8	95.04	96.48	2.2	.48	.59
1901.....	28.85	2.79	1.44	70.60	97.03	98.44	.55	.18	.12
1902.....	47	4.55	1.84	52.13	95.12	98.06	0.87	0.33	0.1
Shipping mines.....	1.2	0.21	0.24	98.2	99.68	99.72	0.6	0.11	0.04

The foregoing covers a period of ten years and indicates the advancement to the centralization of semi-monthly payments of wages.

EARNINGS OF MINERS.

The leading question in all proposed agreements between miners and operators centers on the possible or probably earnings of the miners. As a class they are strictly piece workers, and to a great extent can choose their own time. The following tables have been compiled from the returns of the operators, and show approximately the earnings of coal miners only for the years ended June 30, 1901, and June 30, 1902:

TABLE 34.—*Hand Mining, Earnings of Coal Miners, in Shipping Mines, for Year Ended June 30, 1901, by Districts.*

District.	Number of miners.	Average days worked.	Total tons mined	Average rate per ton.	Gross earnings.	Average tons per man per year.	Average earnings per man per year.	Average tons per man per day.	Average earnings per man per day.
First	5,485	237.5	3,285,702	\$0.7294	\$2,382,645	599	\$434.39	2.52	\$1.83
Second	3,824	223.4	2,469,984	0.7247	1,790,056	646	468.11	2.89	2.10
Third.....	2,078	182.4	1,639,383	0.55	902,079	789	434.11	4.33	2.31
Fourth.....	3,079	187	2,651,572	0.5257	1,393,978	861	452.74	4.61	2.42
Fifth.....	3,167	208.8	3,400,239	0.4952	1,683,672	1,074	531.63	5.14	2.55
Sixth.....	2,023	216.9	2,393,602	0.4834	1,158,141	1,183	572.49	5.46	2.64
Seventh.....	2,550	177.9	2,386,648	0.445	1,062,099	936	416.51	5.26	2.34
The State.....	22,206	203	18,227,130	\$0.569	\$10,372,670	821	\$467.11	4.04	\$2.30

TABLE 35.—*Hand Mining, Earnings of Coal Miners, in Shipping Mines, for Year Ended June 30, 1902, by Districts.*

District.	Number of miners.	Average days worked.	Total tons mined	Average rate per ton.	Gross earnings.	Average tons per man per year.	Average earnings per man per year.	Average tons per man per day.	Average earnings per man per day.
First.....	5,832	246.2	3,540,700	\$0.7303	\$2,585,854	607.11	\$443.39	2.47	\$1.80
Second	3,801	236	2,564,302	0.721	1,849,347	674.63	486.54	2.86	2.06
Third	2,357	208.5	1,979,139	0.5563	1,101,054	839.69	467.14	4.03	2.24
Fourth	3,682	206.6	3,260,517	0.521	1,688,135	885.25	458.48	4.29	2.22
Fifth.....	3,347	212.7	3,841,992	0.4951	1,902,059	1,144.9	568.30	5.40	2.67
Sixth.....	2,606	201.8	2,792,735	0.4812	1,343,899	1,071.66	515.68	5.31	2.56
Seventh.....	2,604	179.6	2,636,772	0.4429	1,167,770	1,012.59	448.44	5.64	2.50
The State.....	24,229	209.85	20,616,155	\$0.5645	\$11,638,120	850.88	\$480.34	4.06	\$2.29

The only data that can properly be taken or used in any manner by which to compare the results in these tables are those given in the sixth biennial report (1890) of this bureau, which covers the year from April 1, 1888, to May 1, 1889. It must be understood that that investigation was made from the actual pay-rolls and all computations based on the data therein revealed at the 11 mines considered. In this report two of the mines were machine mines, and the system of paying for mining coal was what is known as the screened ton basis.

The tables here given are exclusively shipping mines, and include only mines where mining is done by hand, the total output of the mines (gross weight tons), the average days of operation of the mines, and the average agreed rate per ton for mining, known as the scale rate adopted by miners and operators.

A comparative statement is presented:

Year.	Number of men.	Average number of days.	Average tons per man per day.	Average earnings per man per day.	Average earnings per man per year.
1888-9.....	5,356	213	2.5	\$2.23	\$384.14
1901.....	22,206	203	4.04	2.30	467.11
1902.....	24,229	210	4.06	2.29	480.34

By reference to the statement for the years 1888-9 it will be found that the application of the number of days worked and the rate per day cannot be used to produce the average yearly earnings found for each man. This is accounted for from the fact that only seven of the mines had a working time for the 12 months.

The only object, therefore, for the comparison is to show the average tons per man and average earnings per day and per year, for the different years and under the different systems of mining. The basis of the calculations for the year 1888-9 being different in every respect from that of the years 1901 and 1902, no very definite deductions can be made therefrom.

Similar tables have been made for the years 1901 and 1902, showing the results for machine mines:

TABLE 36.—*Earnings of Coal Miners, in Shipping Mines, Machine Mining Exclusively, for the Year Ended June 30, 1901.*

District.	Number of miners.	Average days worked.	Total tons.	Average rate per ton.	Gross earnings.	Average tons per man per year.	Average earnings per man per year.	Average tons per man per day.	Average earnings per man per day.
First.....	*	.....	.....	.....	.....	.....	.....	.....	.....
Second.....	*	.....	.....	.....	.....	.....	.....	.....	.....
Third.....	*	.....	.....	.....	.....	.....	.....	.....	.....
Fourth.....	*	.....	.....	.....	.....	.....	.....	.....	.....
Fifth.....	1,525	212.3	1,913,366	\$0.4201	\$503,853	1,255	\$527.12	5.91	\$2.483
Sixth.....	1,141	232.2	1,740,505	0.422	734,315	1,526	643.57	6.57	2.77
Seventh.....	*	.....	.....	.....	.....	.....	.....	.....	.....
The State.....	2,666	223.	3,653,871	\$0.4209	\$1,538,168	1,371	\$577.00	6.15	\$2.587

* No mining exclusively by machines.

TABLE 37.—*Machine Mining Exclusively, Earnings of Coal Miners, in Shipping Mines, for the Year Ended June 30, 1902.*

District.	Number of miners.	Average days worked.	Total tons mined.	Average rate per ton.	Gross earnings.	Average tons per man per year.	Average earnings per man per year.	Average tons per man per day.	Average earnings per man per day.
First.....	*	.....	.....	.....	.....	.....	.....	.....	.....
Second.....	*	.....	.....	.....	.....	.....	.....	.....	.....
Third.....	*	.....	.....	.....	.....	.....	.....	.....	.....
Fourth.....	*	.....	.....	.....	.....	.....	.....	.....	.....
Fifth.....	1,615	219.	2,303,949	\$0.42	\$967,659	1,427	\$599.85	6.51	\$2.74
Sixth.....	1,833	225.6	2,514,675	0.4203	1,056,873	1,372	576.58	6.08	2.56
Seventh.....	*	.....	.....	.....	.....	.....	.....	.....	.....
The State.....	3,448	223.3	4,818,624	\$0.4201	\$2,024,532	1,393	\$587.16	6.26	\$2.63

* No mining exclusively by machines.

Brought together the showing in as follows:

Year.	Number of min- ers.	Average number of days.	Average tons per man per day.	Average earn- ings per man per day.	Average earn- ings per man per year.
1901.....	2,666	223	6.15	\$2.59	\$577.00
1902.....	3,448	223	6.26	2.63	587.16

The most noticeable difference here is the increased number of miners employed in 1902 over 1901, the increase being 782 men. The days worked, tons mined and earnings of each vary but a trifle; the earnings for the year show an increase of \$10 16 to each man.

The comparison is carried further to show the relative operations of the hand and machine mines:

FOR THE YEAR 1901.

Manner of mining.	Number of min- ers.	Average number of days.	Average tons per man per day.	Average earn- ings per man per day.	Average earn- ings per man per year.
Hand	22,206	203	4.04	\$2.30	\$467.11
Machine.....	2,666	223	6.15	2.59	577.00

FOR THE YEAR 1902.

Manner of mining.	Number of min- ers.	Average number of days.	Average tons per man per day.	Average earn- ings per man per day.	Average earn- ings per man per year.
Hand	24,229	210	4.06	\$2.29	\$490.34
Machine.....	3,448	223	6.26	0.63	587.16

The totals and averages of all the preceding tables relating to the earnings of miners have been based on returns made by the operators to the State Inspectors. While many subordinate items undoubtedly exist that have not been accounted for, but which would no doubt reduce the conclusions reached, yet it may be taken as approximately correct for the different particulars set forth for the two years.

MACHINE MINING.

The mines in which machines are used exclusively and in part are set forth as follows:

TABLE 38.—*Machine Mining Mines, Men, Machines, Tons, by Districts—1902.*

DISTRICT.	MINES IN WHICH MACHINES ARE USED.								
	EXCLUSIVELY.				IN PART.			TOTAL.	
	Mines.	Men.	Machines.	Tons.	Mines.	Machines.	Tons.	Mines.	Tons.
First.....	.....	.....	.....	.....	2	5	2,258	2	5 2,258
Second.....	.....	.....	.....	.....	1	1	4,043	1	1 4,043
Third .....	.....	.....	.....	.....	1	2	12,389	1	2 12,389
Fourth	1	110	2	98,945	2	9	66,109	3	11 165,054
Fifth.....	13	2,450	132	2,160,354	1	5	142,875	14	137 2,303,229
Sixth	20	2,251	174	2,200,726	13	69	744,938	33	243 2,945,664
Seventh.....	.....	.....	.....	.....	10	65	1,064,486	10	65 1,064,486
The State.....	34	4,811	308	4,460,025	30	156	2,037,098	64	464 6,497,123
1901.....	29	3,499	280	3,761,270	34	184	2,015,369	63	464 5,774,639
1900.....	38	3,883	272	3,765,601	29	158	1,917,993	67	430 5,583,594
1899.....	39	.....	300	4,467,704	25	140	1,617,608	64	440 6,085,312

Regarding the mines where machines are used exclusively in undercutting the coal, it is shown that the number has increased by five over last year, being four mines in the sixth district and one in the fourth. By this increase in mines the output has increased 698,755 tons. Considering the total tons cut, the increase over last year has been 722,484 tons. This tonnage exceeds that of any former year.

The different machines used during the year are shown as follows:

TABLE 39.—*Name and Number of Mining Machines in Use, by Districts—1902.*

District.	Harrison.	Ingersoll-Sergeant.	Sullivan.	Morgan-Gardner.	Yock.	Jeffrey.	Herzler & Henninger.	Goodman.	Butler.	Totals.
First.....	.....	2	3	.....	.....	.....	.....	.....	.....	5
Second.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Third.....	.....	3	.....	.....	.....	.....	.....	.....	.....	2
Fourth.....	.....	.....	4	5	.....	.....	.....	.....	2	11
Fifth.....	75	30	.....	13	4	2	1	12	.....	137
Sixth.....	59	87	21	2	24	19	19	12	.....	243
Seventh.....	26	12	8	2	.....	10	.....	7	.....	65
The State.....	160	133	36	22	28	31	20	32	2	464
1901.....	178	132	33	32	24	33	13	19	.....	464
1900.....	197	119	40	19	5	30	*1	19	.....	430
1899.....	180	130	35	15	12	39	*6	23	.....	440

* Choteau.

Two new machines have been introduced into this State during the year: the Goodman and the Butler; 17 of the former and two of the latter. The changes that have taken place from year to year in the machines operated during the past four years will be noticed in the foregoing account.

The field in which mining is done by machines exclusively is shown as follows:

TABLE 40.—*Mines in which Machines are Used Exclusively.*

COMPANY.	LOCATION.	MACHINES.		TONS.
		No.	Name.	
Staunton Coal Co.....	Staunton.....	7	Jeffrey.....	343,944
C., W. & V. Coal Co.....	Thayer.....	8	Morgan-Gardner.....	256,281
Madison Coal Co. No. 6.....	Divernon.....	5	{ 3 Link-Belt..... } { 2 Jeffrey..... }	263,651
Chicago Virden Coal Co., No. 1...	Virden.....	9	Goodman.....	256,442
Madison Coal Co. No. 4.....	Glen Carbon.....	20	Ingersoll-Sergeant.....	255,875
Consolidated Coal Co. No. 8.....	Mt. Olive.....	16	Harrison.....	237,871
Consolidated Coal Co. No. 6.....	Staunton.....	12	{ 4 Yock..... } { 8 Harrison..... }	235,145
Madison Coal Co. No. 5.....	Mt. Olive.....	17	Ingersoll-Sergeant.....	231,698
Madison Coal Co. No. 2.....	Glen Carbon.....	21	Ingersoll-Sergeant.....	221,900
Consolidated Coal Co. No. 7.....	Staunton.....	13	Harrison.....	212,003
Consolidated Coal Co. No. 10.....	Mt. Olive.....	15	{ 14 Harrison..... } { 1 Herzler-Henninger }	211,844
Consolidated Coal Co. No. 3.....	Collinsville.....	11	Harrison.....	161,289
Muren Coal & Ice Co. No. 2.....	New Baden.....	15	Yock.....	147,383
Consolidated Coal Co., Heinz Bluff	Collinsville.....	10	Harrison.....	146,522
Lumaghi Coal Co. Cantine No. 2...	Collinsville.....	10	Sullivan.....	119,394
Trenton Coal Co.....	Trenton.....	13	Ingersoll-Sergeant.....	104,763
Walnut Hill Coal Co.....	Birkner.....	6	Sullivan.....	102,986
Consolidated Coal Co.....	Missionfield.....	2	Butler.....	98,945
Consolidated Coal Co.....	Gillespie.....	11	Harrison.....	90,316
Madison Coal Co. No. 3.....	Edwardsville.....	10	Ingersoll-Sergeant.....	84,552
Glendale Coal Co. No. 1.....	Belleville.....	5	{ 2 Harrison..... } { 1 Sullivan..... } { 2 Herzler-Henninger. }	79,600
Oakland Coal Co.....	Belleville.....	6	{ 5 Ingersoll-Sergeant. } { 1 Herzler-Henninger. }	77,671
Girard Coal Co.....	Girard.....	10	Ingersoll-Sergeant.....	67,152
Consolidated Coal Co.....	Trenton.....	12	Harrison.....	62,655
Consolidated Coal Co.....	Hornsby.....	12	Harrison.....	58,803
Consolidated Coal Co. (White Oak)	Marissa.....	5	Harrison.....	56,538
Consolidated C. Co., Gartside No. 4	Belleville.....	5	Harrison.....	52,869
Consolidated C. Co. (Green Mts.)..	Belleville.....	4	Harrison.....	46,713
Consolidated C. Co. (Schureman)..	Belleville.....	5	{ 4 Harrison..... } { 1 Ingersoll-Sergeant. }	43,217
Consolidated Coal Co. (Richland).	Belleville.....	4	{ 3 Harrison..... } { 1 Herzler-Henninger. }	35,472
Johnson Coal Co., O. K.....	Marissa.....	2	Goodman.....	30,421
Consolidated Coal Co. (Rose Hill).	Belleville.....	3	Harrison.....	26,962
William Neil & Co. (Lessee).....	Bunker Hill.....	1	Harrison.....	5,719
Thomas Pressed Brick Co.....	Golden Eagle.....	3	Ingersoll-Sergeant.....	3,429
Total—34 Mines.....		308		4,460,025

Here is shown the name and location of the mines where the cutting is done wholly by machines; 66 per cent of the machines are herein used and 68 per cent of machine mined coal is produced.

The following table presents the result of machine mining where only part of the coal is cut by machines:

TABLE 41.—*Mines in which only Part of the Output is Cut by Machines.*

COMPANY.	LOCATION.	MACHINES.		Tons.
		No.	Name.	
Big Muddy Coal & Iron Co.....	Murphysboro ..	14	Harrison	249,578
Big Muddy Coal & Iron Co.....	Murphysboro ..	12	Harrison	212,109
Odin Coal Co.....	Odin	7	{ 3 Jeffrey..... 4 Goodman..... }	185,985
Chicago & Carterville Coal Co.....	Herrin.....	6	{ 3 Jeffrey..... 2 Morgan..... 1 Goodman..... }	182,856
Hillsboro Coal Co.....	Hillsboro	5	Morgan-Gardner.....	142,875
Donk Bros. Coal & Coke Co.....	Collinsville	6	{ 5 Goodman	125,204
			{ 1 Jeffrey..... }	
Southern Ill. C. M. & W. Co., No. 2..	Marion	6	{ 2 Goodman	111,162
			{ 4 Jeffrey..... }	
Southern Ill. C. M. & W. Co., No. 3..	Marion	5	{ 4 Goodman	84,183
			{ 1 Jeffrey..... }	
Southern Ill. C. M. & W. Co., No. 4..	Marion	8	Sullivan	81,806
Lebanon Coal & M. Co.....	Lebanon.....	9	Yock.....	75,436
Muren Coal & Ice Co	Belleville.....	4	{ 3 Jeffrey..... 1 Morgan-Gardner.. }	71,421
Sorento Power & Mfg. Co.....	Sorento.	7	Ingersoll-Sergeant	65,445
Gartside Coal Co.....	Murphysboro ..	6	Ingersoll-Sergeant	62,379
Chicago Big Muddy Coal Co	Marion	3	Jeffrey.....	52,411
Beck-Walker Coal Co.....	Belleville.....	10	Ingersoll-Sergeant	50,000
Lenz Coal & Mfg. Co	Belleville.....	3	{ 1 Jeffrey..... 1 Goodman..... 1 Morgan-Gardner.. }	40,985
Eureka Coal Co	Marissa.....	5	Herzler-Henninger.....	40,382
Moweaqua C. M. & Mfg. Co	Moweaqua.....	5	Morgan-Gardner.....	34,109
Himrod Coal Co.....	Danville.....	4	Sullivan	32,000
Belleville & O'Fallon.....	Belleville.....	4	Herzler-Henninger.....	29,993
Willis Coal & Mining Co	Willisville	5	Ingersoll-Sergeant	27,452
Skellet Coal Co.....	Belleville.....	2	Jeffrey.....	25,376
Kolb Coal Co	Mascoutah	6	Herzler-Henninger.....	20,190
Donk Bros. Coal & Coke Co.....	Troy	4	Sullivan	14,195

Table 41—Concluded.

COMPANY.	LOCATION.	MACHINES.		Tons.
		No.	Name.	
Athens Mining Co	Athens	2	Ingersoll-Sergeant	12,389
Devlin Coal Co.....	Toluca	1	Goodman, longwall.....	4,043
Cardiff Coal Co.....	Cardiff.....	3	Sullivan	1,756
Gartside Coal Co.....	Murphysboro ..	1	Ingersoll-Sergeant	550
Gardner-Wilson Coal Co	Clarke City.....	2	Ingersoll-Sergeant	502
Kerns-Doniwald Coal Co	Worden	2	Jeffrey.....	326
Total—30 mines .....	.....	157	.....	2,037,098

The noticeable feature of this table is that 157 machines cut more coal than 184 last year.

CONSUMPTION OF POWDER.

The powder consumed in reducing the coal is set forth in the following table:

TABLE 42.—*Distribution of Powder Used in all Mines, by Districts.*

DISTRICT.	POWDER USED IN BLASTING COAL.					
	Mines.	Men.	Kegs.	Tons.	Kegs per man.	Tons per keg.
First.....	47	5,254	42,419	2,479,953	8.1	59.33
Second	80	1,937	36,483	1,027,508	18.8	28.16
Third	169	3,957	102,929	2,344,834	26.0	22.78
Fourth.....	67	4,870	81,866	3,598,712	16.8	43.96
Fifth.....	71	7,492	163,962	6,199,389	21.9	37.81
Sixth.....	100	7,863	108,610	6,214,991	13.8	57.22
Seventh.....	123	5,186	100,079	3,701,136	19.4	36.70
The State.....	657	36,559	637,448	25,566,523	17.4	40.1
1901.....	585	34,570	477,612	16,283,180	13.82	34.09
1900.....	621	29,677	490,713	19,979,219	16.5	40.71
1892.....	436	13,240	201,285	7,345,157	15.2	36.4

The reading of this table reveals that for this year, in mines where this explosive is used to bring down the coal, 17.4 kegs or 435 pounds of powder is the average to each man employed and that 40.12 tons was the result of the powder derived from each keg. A further comparison points out that ten ounces of powder was exploded to reduce each ton of coal produced. The same totals for the two preceding years and for 1892 are added to the table. Reference to the kegs per man and the tons per keg for the year 1892 shows that the performance of the explosive used varies but slightly from former years.

FATAL ACCIDENTS IN MINES.

Strange as it may seem, the number of fatal accidents that have occurred during the year is the same as last year; 99 men have been killed in and about the mines. The fifth and seventh districts report the same as last year. The first district shows an increase of four and the third two; while the second district returns a decrease of two, the fourth and sixth three.

The death rate per 1,000 employed is lowest in the second district and highest in the third; while for the State it is 2.2, the same as last year.

The following gives the information for the year by districts:

TABLE 43.—*Fatal Casualties, by Districts—1902.*

DISTRICT.	Total number killed.	WHERE EMPLOYED.		NUMBER OF EMPLOYEES.		Total number of tons of coal mined	Number of employes to each death.	Rate per 1,000.	Number of tons of coal mined to each death.
		Under gr'und	Above gr'und	Under gr'und	Above gr'und				
First.....	15	14	*1	7,477	558	3,729,724	536	1.9	266,409
Second.....	7	6	†1	6,050	533	3,104,516	940	1.	517,419
Third.....	6	6	.....	3,839	429	2,413,463	711	1.6	402,244
Fourth.....	20	15	‡5	5,042	637	3,939,864	284	3.	262,658
Fifth.....	17	17	.....	6,788	776	6,213,386	445	2.5	365,493
Sixth.....	19	18	*1	7,090	839	6,241,847	417	2.7	328,518
Seventh.....	15	14	*1	5,232	715	4,378,500	397	2.9	291,900
The State.....	99	92	9	41,518	4,487	30,021,300	465	2.2	326,318

*Falling down shaft.

†Crushed between railroad cars.

‡Four falling down shaft, one crushed unloading boiler from railroad car.

Regarding the number of men employed and the number of tons mined to each death, the showing is better than for the last year.

Considering the fatal and non-fatal casualties for the year in connection with the consumption of powder used for mining the coal the following has been prepared:

TABLE 44.—*Fatal and Non-Fatal Accidents, Caused by Explosions, Falling Coal and Rock, and all other causes—1902.*

CAUSE.	CASUALTIES.		PERCENTAGES.		Totals.	Per-cent-ages.
	Fatal.	Non-fatal.	Fatal.	Non-fatal.		
Blast explosions.....	6	21	6.06	5.17	27	5.36
Blasts, premature.....	7	1	7.07	.25	8	1.58
Blown out shots.....		1		.25	1	.2
Flying coal.....	4	5	4.04	1.23	9	1.78
Falling coal and rock.....	55	198	55.56	48.77	253	50.1
All other causes.....	7	180	27.27	44.82	207	40.99
Total.....	99	406	100.00	100.00	505	100.00

The casualties, both fatal and non-fatal, number 505; it is revealed by the first four items shown that only 9 per cent of all the casualties are directly traceable to explosives, 50 per cent to falling coal and rock and 41 per cent to all other causes. The falling of coal and rock in our mines have been the leading cause of the accidents occurring in the mines of the State for many years; exactly how many of these are traceable to the use of powder cannot positively be ascertained.

Selecting, for some comparisons regarding the subject matter, the fifth, sixth and seventh districts, wherein the thickness of the seams of coal is the greatest and the use of powder for blasting coal exceeds that of any other part of the State, it will be found by reverting to table 42 that in the districts named 372,651 kegs or 58 per cent of the powder was consumed therein, and that 16,115,516 tons or 63 per cent of the coal reduced by this explosive was mined in the same district.

Notwithstanding this showing, attention is directed to tables 46 and 55 following; there it will be found that 55 fatal accidents and 198 non-fatal, a total of 253, are attributed to falling coal and rock.

Directing further attention to the same tables, it is disclosed that only 26 of the fatal accidents and 70 of the non-fatal, a total of 96 or 38 per cent, occurred in the districts named.

Continuing these observations as to the possible or probable connection between the use of powder and the accidents occurring in mines, reference is also directed to the same tables. It is found in table 44, that of the fatal casualties in all the districts, 17 are attributed to the use of powder; while of the non-fatal 28 are charged to the same cause, making a total of 45. Turning to tables 46 and 55 it will be seen that in the first, second, third and fourth districts, five fatal and ten non-fatal, a total of 15 or 33 per cent, came about from the use of powder; while as has been shown, in these districts only 42 per cent of the powder was used and 37 per cent of the coal was mined by this process.

Referring now to both classes of accidents, namely: those which are traceable to the use of powder and those caused by falling coal and rock, the following percentages are presented:

DISTRICT.	PERCENTAGES OF—			
	Powder used.	Coal mined.	ACCIDENTS.	
			From use of powder.	From falls.
First, Second, Third, Fourth.....	42	37	33.33	62
Fifth, Sixth, Seventh.....	58	63	66.67	38

This points out that in the field, where 58 per cent of the powder is used and 63 per cent of the coal is produced thereby, 67 per cent of the accidents is charged to the use of powder while only 38 per cent is attributed to falling coal and rock.

The theory, therefore, which has been urged by some, that accidents by falling coal and rock are largely the results of the excessive or extravagant use of powder, is not sanctioned by this showing.

The following table presents the fatal accidents for 20 years:

TABLE 45.—*Fatal Accidents for 20 Years.*

Year.	Number killed.	Total number of employes.	Total tons of coal mined.	Number of employes to each life lost.	Rate per 1,000.	Number of tons of coal produced to each life lost.
1883.....	134	23,939	12,123,456	179.6	5.6	90,474
1884.....	46	25,575	12,208,075	566	1.8	265,393
1885.....	39	25,436	11,834,459	652.4	1.5	303,448
1886.....	52	25,846	11,175,241	497	2.0	214,909
1887.....	41	26,804	12,423,066	654	1.5	303,002
1888.....	55	29,410	14,328,181	534.7	1.9	260,512
1889.....	42	30,076	14,017,298	716.1	1.4	333,745
1890.....	53	28,574	15,274,727	539.1	1.9	286,316
1891.....	60	32,951	15,660,698	549	1.8	261,012
1892.....	57	33,632	17,062,276	580	1.7	313,372
1893.....	69	35,390	19,949,564	513	1.9	289,124
1894.....	72	32,635	17,113,576	453.3	2.2	237,688
1895.....	75	31,962	17,735,864	426.2	2.3	236,478
1896.....	77	33,054	19,786,626	429.2	2.3	256,969
1897.....	69	33,788	20,072,758	489.7	2.0	290,610
1898.....	75	35,026	18,599,239	467	2.1	247,991
1899.....	84	36,991	23,434,445	440	2.3	278,982
1900.....	94	39,384	25,153,929	419	2.4	267,595
1901.....	99	44,143	26,635,319	445.9	2.2	269,044
1902.....	99	46,005	30,021,300	464.7	2.2	303,245
Averages for 20 years	69.6	32,531	19,730,508	467.4	*2.1	283,484

* Omitting the year 1883, the rate is 2 per 1,000 employed.

There have been 1,392 deaths from accidents in and about the mines during these 20 years, or an average of 69.6 for each year. The number of employes to each death for the same period has been 467.4, or a death rate of 2 per 1,000. The latter omitting the year 1883, when 69 lost their lives by a flood at Braidwood and 10 by an explosion at Coulterville.

The following table presents the fatal accidents by causes and by districts:

TABLE 46.—*Fatal Accidents by Causes for 1902, with Totals and Averages for 13 Years.*

CAUSES.	Totals.	DISTRICTS.							Percentages.
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
Blast explosions.....	4	1	.....	1	2	.....	.....	.....	4.01
Cages.....	2	.....	.....	.....	.....	1	1	.....	2.02
Falling coal and rock.....	55	9	5	5	10	5	13	8	55.56
Falling down shaft.....	7	1	.....	.....	4	.....	1	1	7.07
Falling timber.....	1	1	.....	.....	.....	.....	.....	.....	1.01
Flying coal.....	4	1	.....	.....	.....	.....	.....	3	4.06
Pit cars.....	15	2	1	.....	3	5	1	3	15.16
Powder explosion.....	2	.....	.....	.....	.....	.....	2	.....	2.02
Premature blasts.....	7	.....	.....	.....	.....	6	1	.....	7.07
Railroad cars.....	2	.....	1	.....	1	.....	.....	.....	2.02
Totals, 1902.....	99	15	7	6	20	17	19	15	100.00
" 1901.....	99	11	9	4	21	17	22	15	.....
" 1900.....	94	18	7	5	24	22	11	7	.....
" 1899.....	84	7	12	4	11	14	22	14	.....
" 1898.....	75	12	10	4	19	5	8	17	.....
" 1897.....	69	11	9	4	10	19	11	5	.....
" 1896.....	77	18	11	4	14	16	4	10	.....
" 1895.....	75	16	12	16	15	16	.....	.....	.....
" 1894.....	72	19	9	10	19	15	.....	.....	.....
" 1893.....	69	17	5	12	10	25	.....	.....	.....
" 1892.....	57	10	1	11	24	11	.....	.....	.....
" 1891.....	60	15	4	9	12	20	.....	.....	.....
" 1890.....	53	16	5	10	11	11	.....	.....	.....
Aggregates, 13 years.....	985	185	102	99	210	208	97	84	.....
Averages, 13 years.....	75.8	14.2	7.9	7.6	16.2	16	7.5	6.5	.....
Percentages, 7 years, 1896-1902.....	.....	15.36	11.02	5.18	19.87	18.36	16.19	14.02	100.00

This table also gives the total fatal accidents by districts for the past 13 years. The fourth, fifth and first districts account for decidedly the largest number during these years. Referring to the causes of these accidents, it is shown that seven deaths resulted from falling down shafts, also the remarkable showing that four of these occurred in the fourth district.

Observing the percentages for the seven years, embracing the period the seven districts have been formed, it is shown that the fourth, fifth and sixth districts are answerable for 54 per cent of the fatal accidents.

The next table presents the fatal accidents by leading causes for 15 years:

TABLE 47.--*Fatal Accidents for 15 Years, by Leading Causes.*

YEARS.	LEADING CAUSES.								Total
	Blasts and explosions.	Cages	Falling coal and rock.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railroad cars.	Other causes.	
1888.....	9	2	33	4	.....	6	1	.....	55
1889.....	3	4	26	2	.....	5	.....	2	42
1890.....	4	4	36	.....	5	3	1	.....	53
1891.....	11	4	33	1	4	2	2	3	60
1892.....	4	4	28	8	3	6	1	3	57
1893.....	6	4	48	3	2	2	1	3	69
1894.....	8	8	43	5	.....	6	2	.....	72
1895.....	12	4	38	4	5	5	1	6	75
1896.....	9	5	41	6	2	7	1	6	77
1897.....	11	.....	46	5	2	1	1	3	69
1898.....	11	2	43	4	7	2	1	5	75
1899.....	4	5	51	4	4	6	1	9	84
1900.....	17	4	51	1	1	11	2	7	94
1901.....	3	1	57	1	1	11	.....	25	99
1902.....	13	2	55	7	.....	15	2	5	99
Totals	125	53	629	55	36	88	17	77	1,080
Percentage for 15 years.....	11.58	4.91	58.24	5.09	3.33	8.15	1.57	7.13	100.00

This indicates the fatal accidents by leading causes. Falling coal and rock comprise the largest number in all the years. The alarming increase in the past three years in the number of deaths caused by pit-cars, calls for some attention from those in charge. A total of 37 or 42 per cent is the record for pit-cars for the years named. Deaths from blasts and explosions are about one-fifth of those caused by falling coal and rock.

Following is a comparative table showing in parallel columns, for 20 years, the number of deaths from falls and from other causes.

TABLE 48.—*Fatal Accidents from Falls in Mines and from Other Causes, with Averages and Percentages for 20 Years.*

YEAR.	DISTRICT.														Total from falls in mines.		Total from other causes.		Total deaths.
	First.		Second		Thrd.		Fourth.		Fifth.		Sixth.		Sev-enth.		Total from falls in mines.	Total from other causes.			
	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.					
1883.....	7	72	1	....	13	5	11	5	8	12	....	....	....	....	40	94	134
1884.....	6	5	5	1	8	4	4	5	6	2	....	....	....	....	29	17	46
1885.....	6	4	....	3	2	4	9	4	3	4	....	....	....	....	20	19	39
1886.....	9	5	3	3	5	6	8	1	7	5	....	....	....	....	32	20	52
1887.....	10	4	3	2	3	2	2	1	10	4	....	....	....	....	28	13	41
1888.....	16	3	1	4	5	5	5	3	6	7	....	....	....	....	33	22	55
1889.....	8	6	1	2	3	3	6	2	8	3	....	....	....	....	26	16	42
1890.....	15	1	1	4	8	2	5	6	7	4	....	....	....	....	36	17	53
1891.....	10	5	2	2	4	5	6	6	11	9	....	....	....	....	33	27	60
1892.....	8	2	1	....	5	6	8	16	6	5	....	....	....	....	28	29	57
1893.....	15	2	3	2	8	4	6	4	16	9	....	....	....	....	48	21	69
1894.....	13	6	5	4	5	5	10	9	10	5	....	....	....	....	43	29	72
1895.....	8	8	7	5	7	9	7	8	9	7	....	....	....	....	38	37	75
1896.....	14	4	4	7	3	1	8	6	3	13	4	....	5	5	41	36	77	
1897.....	8	3	4	5	3	1	10	....	11	8	8	3	2	3	46	23	69	
1898.....	8	4	5	5	1	3	15	4	3	2	4	4	7	10	43	32	75		
1899.....	6	1	4	8	2	2	9	2	7	7	14	8	9	5	51	33	84		
1900.....	13	5	3	4	2	3	16	8	8	14	5	6	4	3	51	43	94		
1901.....	9	2	4	5	1	3	14	7	5	12	14	8	10	5	57	42	99		
1902.....	9	6	5	2	5	1	10	10	5	12	13	6	8	7	55	44	99		
Twenty years...	198	148	62	68	93	74	169	107	149	144	62	35	45	38	778	614	1,392		
Averages.....	9.9	7.4	3.1	3.4	4.6	3.7	8.5	5.4	7.5	7.2	3.1	1.8	2.3	1.9	38.9	30.7	69.6		
Percentages.....	57.2	42.8	47.7	52.3	55.7	44.3	61.2	38.8	50.9	49.2	64	36	54.2	45.8	55.9	44.1	100.00		

Directing attention to the totals in this exhibit, it will be found that 1,391 accidental deaths have occurred in our mines in the past 20 years, an average of 69.6 for each year; 778 or 60 per cent have been reported as resulting from falling coal and rock. Considering the deaths by districts for the years named, the highest percentages obtain in the fifth, second and third respectively.

To set forth this matter more fully, the following table of percentages is presented:

TABLE 49.—*Percentages of Fatal Accidents Caused by Falling Roof or Sides, for 20 Years, by Districts.*

YEAR.	DISTRICT.							THE STATE.	
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Total deaths.	Per cent.
1883.....	8.9	100	82.4	62.5	40	.....	.....	134	30
1884.....	27.3	83.3	66.7	44.4	75	.....	.....	46	56.5
1885.....	60	.....	33.3	69.2	43	.....	.....	39	51.3
1886.....	64.3	50	45.5	89	58.3	.....	.....	52	61.5
1887.....	71.4	60	60	66	71.4	.....	.....	41	68.3
1888.....	84.2	20	50	62.5	46.2	.....	.....	55	60
1889.....	57.1	33.3	50	75	72.7	.....	.....	42	62
1890.....	93.8	20	80	45.5	63.6	.....	.....	53	67.9
1891.....	66.7	50	44.4	50	55	.....	.....	60	55
1892.....	80	100	45.5	33.3	54.5	.....	.....	57	49.1
1893.....	88.2	60	66.6	60	64	.....	.....	69	69.6
1894.....	68.4	44.4	50	52.6	66.6	.....	.....	72	58.3
1895.....	50	58.3	43.75	46.67	56.3	.....	.....	75	50.7
1896.....	77.8	36.4	75	57.1	18.8	100	50	77	53.3
1897.....	72.7	44.4	75	100	57.9	72.7	40	69	66.7
1898.....	66.7	50	25	79	60	50	41.2	75	58.1
1899.....	85.7	33.3	50	81.8	50	63.6	64.3	84	60.7
1900.....	72.2	42.9	40	66.7	36.4	45.5	57	94	54.3
1901.....	81.8	44.4	25	66.7	29.4	63.6	66.7	99	57.6
1902.....	60	71.43	83.33	50	29.41	68.42	53.33	99	55.55
20 years.	57.23	47.7	55.69	61.23	50.85	64.00	54.22	1,392	55.89

By reference to the column for the State it will be seen that the percentages of deaths this year from falling coal and rock are slightly less than those shown for the 20 years.

The following table gives the occupation of those who lost their lives during the past year:

TABLE 50.—*Occupation and Conjugal Relation of the Killed.*

OCCUPATIONS.	DISTRICTS AND NUMBER OF FATAL CASUALTIES IN EACH.						Total number of killed.	CONJUGAL RELATIONS.				Dependents.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.		Married.	Single.	Widows.	Children.	
Bricklayer .....	...	...	...	...	1	...	1	...	1	...	...	...
Cagers .....	...	...	...	...	1	1	2	1	1	1	3	4
Drivers.....	1	1	...	2	4	1	12	5	7	5	4	9
Laborer—top.....	...	...	...	...	...	...	1	1	...	1	2	3
Loader .....	...	...	...	...	1	...	1	...	1	...	...	...
Machinist.....	1	...	...	...	...	...	1	1	...	1	6	6
Machine helper .....	...	...	...	...	2	...	2	1	1	1	...	1
Mine manager.....	1	...	...	...	1	...	2	1	1	1	6	6
Miners	11	5	5	16	7	13	67	44	23	44	126	158
Miners' helper.....	...	...	...	...	2	...	2	...	2	...	...	...
Operator .....	...	...	1	...	...	...	1	1	...	1	2	3
Pipeman .....	...	...	...	...	1	...	1	1	...	1	3	4
Superintendent .....	...	...	...	1	...	...	1	1	...	1	1	2
Trackman.....	...	...	...	1	...	...	1	1	...	1	1	2
Trapper	1	...	...	...	1	...	3	...	3	...	...	...
Trimmer .....	...	1	...	...	...	...	1	1	...	1	...	1
Totals	15	7	6	20	17	19	99	59	40	59	154	199

This discloses that 67 or 68 per cent were miners proper and also shows that proprietors themselves lose their lives, seeing that two mine managers, one operator and one superintendent were killed during the year. Fifty-nine of these men were married and leave widows with 154 dependent children; making a total of 199 left to seek support for themselves.

NON-FATAL ACCIDENTS.

The following shows the non-fatal accidents by districts:

TABLE 51.—*Non-Fatal Accidents, by Districts—1902.*

DISTRICT.	Number of men injured.	WHERE EMPLOYED.		NUMBER EMPLOYED.		Total number of employees.	Total tons of coal mined.	Number of employees to one man injured.	Rate per 1,000.	Number of tons of coal mined to one man injured.
		Under ground.	Above ground.	Under ground.	Above ground.					
First	80	78	2	7,477	558	8,035	3,729,724	100	10	46,622
Second.....	59	59	.....	6,050	533	6,583	3,104,516	112	8.9	52,619
Third	*12	12	.....	3,839	429	4,268	2,413,463	356	2.8	201,122
Fourth	68	63	5	5,042	637	5,679	3,939,864	84	12	57,939
Fifth	60	58	2	6,788	776	7,564	6,213,326	126	7.9	103,556
Sixth	79	75	4	7,090	839	7,929	6,241,847	100	10	79,011
Seventh.....	48	46	2	5,232	715	5,947	4,378,500	124	20.9	91,219
The State.....	406	391	15	41,518	4,487	46,005	30,021,300	127	8.8	73,944

* Only eight months reported.

It is here shown that a total of 406 men met with accidents, the ratio being 8.8 per 1,000 employed.

Following is the table giving the record of these accidents for 20 years:

TABLE 52.—*Non-Fatal Accidents for 20 Years.*

Year.	Number of men injured.	Total number of employes.	Total number of tons of coal mined.	Number of employes to one man injured.	Rate per 1,000.	Number of tons of coal produced to one man injured.
1883.....	231	23,939	12,123,456	104	9.6	52,482
1884.....	197	25,575	12,208,075	130	7.7	61,970
1885.....	176	25,446	11,834,459	145	6.9	67,241
1886.....	171	25,846	11,175,231	151	6.6	66,126
1887.....	180	26,804	12,423,066	149	6.7	69,017
1888.....	179	29,410	14,328,181	164	6.1	80,046
1889.....	201	30,076	14,017,298	150	6.7	69,738
1890.....	294	28,574	15,274,727	97	10.3	51,955
1891.....	367	32,951	15,660,698	90	11.1	42,672
1892.....	370	33,632	17,062,276	91	11.0	46,114
1893.....	403	35,390	19,949,564	88	11.4	49,503
1894....	521	32,635	17,113,576	63	16.0	32,848
1895.....	605	31,962	17,735,864	53	18.9	29,315
1896.....	672	33,054	19,786,626	49	20.3	29,444
1897.....	518	33,788	20,072,758	65	15.3	38,751
1898.....	438	35,026	18,599,299	80	12.5	42,464
1899.....	597	36,991	23,434,445	62	16.1	39,254
1900.....	611	39,384	25,153,939	65	15.5	41,168
1901.....	422	44,143	26,635,319	104.6	9.56	63,117
1902.....	406	46,005	30,021,300	127	8.8	73,944
Average 20 years.	378	32,531	19,730,508	86	11.6	52,204

The number reported as injured this year is less than for any year since 1893 and the rate per 1,000 employed less than any year since 1889, while the number employed to one man injured is greater than reported for the same period.

The next table gives the record of these accidents by occupations and by districts.

TABLE 53.—*Non-Fatal Accidents by Occupation and Districts, with Totals and Percentages.*

OCCUPATION.	DISTRICTS.							Totals.	Per- cent- ages.
	First.	Second	Third.	Fourth	Fifth	Sixth.	Sev- enth.		
Blacksmith						1		1	0.25
Cagers.....	2				2	2	3	9	2.22
Carpenter.....	1							1	0.25
Drivers.....	5	9	2	16	21	23	18	94	23.15
Engineer				1				1	0.25
Fireman						1		1	0.25
Grippers.....				2				2	0.49
Laborers.....	1			2		8	2	13	3.2
Loaders.....		2			1	1	3	7	1.72
Machinist.....						1		1	0.25
Machine helpers.....					1	2		3	0.74
Machine runners.....					1	4		5	1.25
Miners.....	63	45	9	40	29	32	21	239	58.87
Mine managers.....			1	1				2	0.49
Motorman.....	1							1	0.25
Mule feeder.....						1		1	0.24
Picker	1							1	0.24
Pusher.....	1							1	0.24
Roadmen	2						1	3	0.74
Sinkers.....	2							2	0.49
Spraggers.....				1	1			2	0.49
Superintendent.....				1				1	0.24
Timberman.....		1						1	0.24
Top boss.....						1		1	0.24
Topmen.....	1			1	2	1		5	1.25
Trapper.....		2		2	2	1		7	1.72
Trimmer.....				1				1	0.24
Totals.....	80	59	12	63	60	79	48	406	100.00

Here it is disclosed that 82 per cent of these accidents were sustained by miners and drivers.

The following table gives the conjugal relations of the injured with the lost time:

TABLE 54.—*Conjugal Relations of the Injured in Non-Fatal Accidents, and Time Lost, by Districts.*

District.	Total.	Married.	Single.	Children	Dependents.	No. recovered and losing time.	Total days lost.	Average days lost per man.
First.....	80	49	31	166	178	69	4,110	62.9
Second	59	36	23	123	158	53	3,752	70.8
Third.....	12	7	5	20	27	*	*	*
Fourth.....	68	42	26	73	110	62	4,188	67.5
Fifth.....	60	27	33	69	96	44	1,973	32.9
Sixth	79	41	38	69	110	73	4,112	52.5
Seventh.....	48	27	21	53	90	38	1,849	38.5
The State...	406	229	177	573	769	339	19,984	59.9

*Time lost not reported.

The reading of this exhibit is that 339 of the injured recovered so as to go to work after losing 60 days time. Of the number, 229 were men with families and leaving 769 dependents, an average of over three persons to each.

The causes of the non-fatal accidents are set forth as follows:

TABLE 55.—*Causes of Non-Fatal Accidents, by Districts.*

CAUSE.	DISTRICTS.							The State.	Per-cent-ages.
	First.	Second	Third.	Fourth	Fifth	Sixth.	Seventh.		
Blasts.....			5		10			15	3.7
Blown out shots.....				1				1	0.24
Cages.....	1	5	1		1			8	1.97
Explosion, gas.....				2				2	0.49
Explosion of powder....	2				2	2		6	1.48
Falling.....	3	1		2	3		1	10	2.46
Falling coal and other things.....	5	1	1	2		4		13	3.2
Falling coal and rock....	57	31	3	37	14	33	23	198	48.77
Flying coal.....		1			1	2	1	5	1.23
Falling down shaft.....						1		1	0.25
Kicked by mules.....		2		2	4	4	2	14	3.44
Machines and machinery	1				1	4		6	1.48
Pit-cars.....	11	17	2	21	24	29	21	125	30.79
Premature blasts.....		1						1	0.25
Unknown.....				1				1	0.25
Totals.....	80	59	12	68	60	79	48	406	100.00

In this presentation attention is directed to the column for State and percentages. Here it is shown that 198 or 49 per cent were injured by falling coal and rock and 125 or 31 per cent by pit-cars, making 80 per cent of the total attributable to these two causes out of 14 shown in the list.

This class of accidents is shown in the following table for 20 years.

TABLE 56.—*Non-Fatal Accidents from Falling Roof and Sides, and other Causes, with Percentages Caused by Falling Roof—20 Years.*

YEAR.	NON-FATAL ACCIDENTS.				YEAR.	NON-FATAL ACCIDENTS.			
	Total.	Falling roof and sides.	All other causes	Per cent caused by falling roof or sides.		Total.	Falling roof and sides.	All other causes	Per cent caused by falling roof or sides.
1883.....	231	130	101	56.28	1894.....	521	294	227	56.43
1884.....	197	135	62	68.53	1895.....	605	338	267	55.87
1885.....	176	118	58	67.00	1896.....	672	373	299	55.51
1886.....	171	109	62	63.74	1897.....	518	310	208	59.85
1887.....	180	124	56	68.89	1898.....	438	252	186	60.87
1888.....	179	112	67	62.58	1899.....	597	335	262	56.12
1889.....	201	129	72	64.17	1900.....	611	323	288	52.86
1890.....	294	196	98	66.66	1901.....	422	233	189	55.21
1891.....	367	227	140	61.85	1902.....	406	198	208	48.77
1892.....	370	234	136	63.25	Totals ...	7,559	4,424	3,135	58.53
1893.....	403	254	149	63.03					

This table divides the non-fatal accidents into two classes: those occurring from falling coal and rock and those from all other causes. This is the first year in the record that the number injured by falls in mines has been less than those from other causes.

In the following table is presented the record of all accidents in mines with the percentages caused by falling roof and sides:

TABLE 57.—*Total Number Killed and Injured with Percentages of All Accidents Caused by Falling Roof or Sides, for 20 Years—1883-1902.*

YEAR.	NUMBER.			PER CENT BY FALLING ROOF AND SIDES.		
	Killed.	Injured.	Total.	Killed.	Injured.	Total.
1883.....	134	231	365	30	56.28	47.7
1884.....	46	197	243	56.5	68.53	66.25
1885.....	39	176	215	51.3	67	64.18
1886.....	52	171	223	61.5	63.74	63.23
1887.....	41	180	221	68.3	68.88	68.77
1888.....	55	179	234	60	62.58	61.97
1889.....	42	201	243	61.9	64.17	63.78
1890.....	53	294	347	67.9	66.66	66.86
1891.....	60	367	427	55	61.85	60.88
1892.....	57	370	427	49.1	63.25	61.36
1893.....	69	403	472	69.6	63.03	63.98
1894.....	72	521	593	58.3	56.43	56.82
1895.....	75	605	680	50.7	55.87	55.59
1896.....	77	672	749	53.3	55.51	55.27
1897.....	69	518	587	66.7	59.85	60.65
1898.....	75	438	513	57.33	60.87	60.34
1899.....	84	597	681	60.71	56.12	56.68
1900.....	94	611	705	54.3	52.86	53.1
1901.....	99	422	523	56.43	55.21	55.45
1902.....	99	408	505	55.55	48.77	50.1
20 years.....	1,392	7,559	8,951	55.89	58.53	58.12

This closes the record on the subject of accidents. Observing the column of percentages for the total number caused by falls, it will be seen that for this year it is less than for any year since 1883, while for all the years this percentage exceeds only that of 7 years and is less than the percentage for 12 of the years.

Another table is presented showing percentages of increase and decrease of men employed, tons produced, number killed and number injured from year to year for 20 years:

TABLE 58.—*Percentages of Increase and Decrease from Year to Year of Men Employed, Tons Produced, Men Killed and Men Injured for a Series of 20 Years.*

YEAR.	MEN EMPLOYED.		TONS PRODUCED.		KILLED.		INJURED.	
	Increase	De-crease.	Increase	De-crease.	Increase	De-crease.	Increase	De-crease.
1883 to 1884.....	6.83	.....	0.7	.....	.....	65.67	.....	14.72
1885 .....	.....	0.5	.....	3.06	.....	15.22	.....	10.66
1886	1.57	.....	.....	5.57	33.33	.....	.....	2.84
1887	3.71	.....	11.17	.....	.....	21.15	5.26	.....
1888	9.72	.....	15.34	.....	34.15	.....	.....	0.56
1889	2.26	.....	.....	2.17	.....	23.64	12.29	.....
1890 .....	.....	5.00	8.97	.....	26.2	.....	46.27	.....
1891	15.31	.....	2.53	.....	13.2	.....	24.83	.....
1892	2.07	.....	8.95	.....	.....	5.00	0.82	.....
1893	5.23	.....	16.92	.....	21.05	.....	8.92	.....
1894 .....	.....	7.78	.....	14.22	4.35	.....	29.28	.....
1895 .....	.....	2.06	3.64	.....	4.17	.....	16.12	.....
1896	3.42	.....	11.56	.....	2.67	.....	11.07	.....
1897	2.22	.....	1.45	.....	.....	10.4	.....	8.04
1898	3.66	.....	.....	7.34	8.7	.....	.....	15.44
1899	5.61	.....	26.00	.....	12.00	.....	36.3	.....
1900	6.47	.....	7.34	.....	1.19	.....	2.35	.....
1901	12.1	.....	5.88	.....	7.4	.....	.....	30.9
1902	4.21	.....	12.71	.....	*	.....	.....	3.8

* Same as for year 1901.

For this year the number of men employed has increased 4.21 per cent, tons produced 12.71 per cent, while the injured has decreased 3.8 per cent.

RECAPITULATIONS.

The tables following recapitulate and condense the entire action of the coal industry for the year. The results as to each district are divided in each table, showing distinctly the operation of the shipping and local mines with the same combined for the State.

TABLE 59.—*The State—Recapitulation by Districts—Shipping and Local Mines, Counties and Production, 1902.*

DISTRICTS. AND MINES.	MINES.			Total tons of coal produced.	GRADED PRODUCT—TONS OF—					
	Counties.	Shipping.	Local.		Lump.	Mine-run.	Egg.	Nut.	Pea or screenings.	Slack or waste.
First	5	33	44	3,729,724	2,306,268	378,921	114,879	108,509	786,489	34,658
Shipping	5	33	....	3,540,698	2,240,426	277,229	112,728	105,493	774,061	30,761
Local	4	....	44	189,026	65,842	101,692	2,151	3,016	12,428	3,897
Second	8	25	151	3,104,516	2,221,767	177,626	20,590	75,517	303,846	305,170
Shipping	6	25	....	2,852,589	1,994,748	176,734	20,590	71,941	294,312	294,214
Local	8	....	151	251,927	227,019	842	.....	3,576	9,534	10,956
Third	8	56	185	2,413,463	1,453,316	448,391	34,764	132,203	255,164	89,625
Shipping	6	56	....	2,064,379	1,152,136	418,216	34,759	132,103	243,132	84,033
Local	8	....	185	349,084	301,180	30,175	5	100	12,032	5,592
Fourth	8	34	50	3,939,864	1,099,715	2,183,252	12,916	128,249	429,739	85,993
Shipping	7	34	....	3,757,201	1,015,000	2,115,498	12,916	118,379	414,454	80,964
Local	5	....	50	182,663	84,715	67,764	.....	9,870	15,285	5,029
Fifth	9	46	53	6,213,386	2,962,970	1,588,586	74,215	263,503	1,104,719	219,393
Shipping	3	46	....	6,140,222	2,902,172	1,581,975	74,215	262,959	1,101,116	217,885
Local	8	....	53	73,164	60,798	6,611	.....	644	3,603	1,508
Sixth	5	80	31	6,241,847	3,512,858	1,231,587	13,042	369,938	855,674	258,748
Shipping	5	80	....	6,162,466	3,452,056	1,219,641	13,042	367,767	852,054	257,906
Local	3	....	31	79,381	60,802	11,946	.....	2,171	3,620	842
Seventh	11	58	69	4,378,500	1,484,779	977,841	410,579	508,537	868,601	128,167
Shipping	8	58	....	4,307,195	1,441,962	963,347	408,829	504,117	863,648	125,292
Local	11	....	69	71,305	42,817	14,494	1,750	4,420	4,953	2,871
The State	54	332	583	30,021,300	15,041,673	6,986,234	680,985	1,586,456	4,604,232	1,121,750
Shipping	40	332	...	28,824,750	14,198,500	6,752,680	677,079	1,562,659	4,542,777	1,091,055
Local	47	....	583	1,196,550	843,173	233,554	3,906	22,797	61,455	30,695

TABLE 60.—*Recapitulation by Districts—Value of Product, Shipping and Local Mines, and Powder Consumed—1902.*

DISTRICT AND MINES.	Aggregate value of total product.	AGGREGATE VALUE OF THE DIFFERENT GRADES OF COAL AT THE MINES.						Number of kegs of powder used for blasting coal.
		Lump.	Mine-run.	Egg.	Nut.	Pea for screen- ings.	Slack or waste.	
First.....	\$4,245,287	\$3,107,769	\$477,928	\$143,906	\$111,814	\$402,284	\$1,490	42,519
Shipping.....	3,961,062	2,972,365	344,625	140,765	108,519	394,479	516	38,430
Local.....	284,225	135,404	133,303	3,141	3,295	7,805	974	4,089
Second.....	\$3,981,838	\$3,348,213	\$230,728	\$29,832	\$86,048	\$167,373	\$119,644	36,483
Shipping.....	3,585,593	2,970,226	229,507	29,832	80,756	160,890	114,382	31,710
Local.....	396,245	377,987	1,221	.....	5,292	6,483	5,262	4,773
Third.....	\$2,532,457	\$1,844,561	\$423,876	\$39,487	\$93,710	\$100,733	\$30,090	102,929
Shipping.....	2,075,430	1,424,774	392,562	39,481	93,630	96,358	28,625	90,709
Local.....	457,027	419,787	31,314	6	80	4,375	1,465	12,220
Fourth.....	\$3,786,009	\$1,431,425	\$1,998,741	\$13,954	\$123,738	\$202,612	\$13,424	81,866
Shipping.....	3,555,241	1,294,586	1,926,467	13,954	113,735	192,539	12,254	77,517
Local.....	230,768	136,839	72,274	.....	10,003	10,073	1,170	4,349
Fifth.....	\$5,175,573	\$3,044,333	\$1,362,755	\$69,184	\$202,288	\$463,234	\$34,437	163,962
Shipping.....	5,069,482	2,949,660	1,355,346	69,184	201,644	459,904	33,910	161,891
Local.....	106,091	94,673	7,409	.....	644	3,330	527	2,081
Sixth.....	\$4,922,469	\$3,323,460	\$957,716	\$13,748	\$228,812	\$350,110	\$35,981	108,610
Shipping.....	4,824,992	3,243,354	943,996	13,748	226,364	348,972	35,897	106,931
Local.....	97,477	80,106	13,720	.....	2,448	1,138	84	1,679
Seventh.....	\$3,628,417	\$1,540,504	\$839,847	\$385,844	\$359,935	\$482,497	\$19,790	\$101,079
Shipping.....	3,548,684	1,485,334	824,968	383,219	355,504	480,277	19,382	98,717
Local.....	79,733	55,170	14,879	2,625	4,431	2,220	408	2,362
The State.....	\$28,272,050	\$17,640,265	\$6,291,591	\$695,955	\$1,206,345	\$2,168,843	\$254,856	637,448
Shipping.....	26,620,484	16,340,299	6,017,471	690,183	1,180,152	2,123,419	244,966	605,895
Local.....	1,651,566	1,299,966	274,120	5,772	26,193	35,424	9,890	31,553

TABLE 61.—*The State—Recapitulation by Districts—Disposition of the Output of Shipping and Local Mines, Employés, Days of Operation and Boilers—1902.*

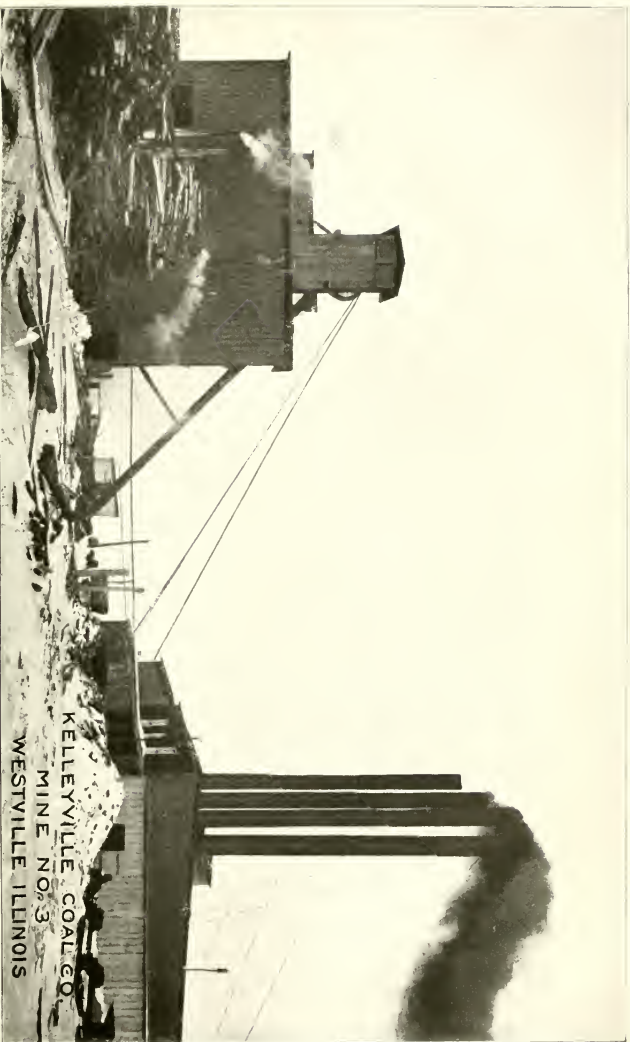
DISTRICTS AND MINES.	DISTRIBUTION OF THE OUTPUT— TONS.				EMPLOYES.			Average days of operation.	STEAM BOILERS.	
	Loaded on cars for shipment.	Supplied to locomotives at the mines.	Sold to local trade.	Consumed and wasted at the mines.	Miners.	All other employes.	Total.		Number of mines using.	Number in use.
First.....	3,098,704	114,869	297,286	218,865	6,115	1,920	8,035	219.	46	120
Shipping	3,098,704	113,939	187,178	140,877	5,832	1,814	7,646	246.2	....	.....
Local.....	.....	930	110,108	77,988	283	106	389	196	....	.....
Second.....	2,631,995	53,812	308,695	110,014	4,874	1,709	6,583	173.3	67	148
Shipping	2,631,995	53,812	67,894	98,888	4,214	1,575	5,789	237.8	....	.....
Local.....	.....	.....	240,801	11,126	660	134	794	162.6	....	.....
Third	1,926,370	11,583	417,219	58,291	3,177	1,091	4,268	180.5	73	123
Shipping	1,926,370	11,583	71,328	55,098	2,426	946	3,372	209	....	.....
Local.....	.....	.....	345,891	3,193	751	145	896	172	....	.....
Fourth.....	3,233,183	145,842	397,277	163,562	3,877	1,802	5,679	181.1	43	142
Shipping	3,233,183	145,842	224,260	153,916	3,546	1,680	5,226	206.5	....	.....
Local.....	.....	.....	173,017	9,646	331	122	453	163.7	....	.....
Fifth.....	5,496,832	216,247	287,360	212,947	5,168	2,396	7,564	161.4	51	193
Shipping	5,496,832	198,717	236,287	208,386	4,962	2,344	7,306	213.7	....	.....
Local.....	.....	17,530	51,073	4,561	206	52	258	115.9	....	.....
Sixth.....	5,367,313	261,823	298,684	314,027	5,550	2,359	7,939	209.9	90	257
Shipping	5,367,313	261,823	223,283	310,047	5,471	2,303	7,774	210.7	....	.....
Local.....	.....	.....	75,401	3,980	109	56	165	207.6	....	.....
Seventh.....	3,919,872	164,108	136,991	157,529	4,084	1,863	5,947	148.6	66	192
Shipping	3,919,872	164,108	67,723	155,487	3,914	1,790	5,704	177.7	....	.....
Local.....	.....	.....	69,263	2,042	170	73	243	122	....	.....
The State.....	25,674,269	968,284	2,143,512	1,235,235	32,875	13,130	46,005	179.6	436	1,175
Shipping	25,674,269	949,824	1,077,958	1,122,699	30,365	12,442	42,807	210.2	....	.....
Local.....	.....	18,460	1,065,554	112,536	2,510	688	3,198	161.9	....	.....

TABLE 62.--*The State—Recapitulation by Districts—Value of Coal Per Ton at the Mines, Tons Mined by Hand and by Machine, Average Prices Paid for Mining.*

DISTRICTS AND MINES.	AVERAGE VALUE OF THE DIFFERENT GRADES OF COAL PER TON AT THE MINES.							TONS MINED BY—		AVERAGE PRICE PAID PER GROSS TON FOR—	
	All grades.	Lump.	Miner-run.	Egg.	Nut.	Pea.	Slack.	Hand (gross weight)	Machine.	Hand mining.	Machine mining.
First.....	\$1.147	\$1.35	\$1.261	\$1.253	\$1.03	\$0.511	\$0.23	3,727,466	2,258	\$0.73	\$0.56
Shipping.....	1.128	1.327	1.243	1.249	1.029	0.51	0.20	3,538,440	2,258	0.73	0.56
Local.....	1.502	2.057	1.31	1.60	1.09	0.628	0.25	189,026	.....	0.67	.....
Second.....	\$1.282	\$1.507	\$1.299	\$1.45	\$1.139	\$0.55	\$0.392	3,100,473	4,043	.....	.....
Shipping.....	1.257	1.489	1.293	1.45	1.123	0.547	0.39	2,848,546	4,043	\$0.72	*
Local.....	1.573	1.665	1.45	.....	1.48	0.68	0.45	251,927	.....	0.86	.....
Third.....	\$1.049	\$1.26	\$0.948	\$1.145	\$0.744	\$0.374	\$0.325	2,401,074	12,389	\$0.565	\$0.45
Shipping.....	1.005	1.24	0.938	1.14	0.693	0.396	0.34	2,051,990	12,389	0.555	0.45
Local.....	1.309	1.39	1.037	1.25	0.80	0.363	0.26	349,084	.....	0.77	.....
Fourth.....	\$0.961	\$1.302	\$0.916	\$1.08	\$0.965	\$0.472	\$0.156	3,774,810	165,054	\$0.52	\$0.404
Shipping.....	0.946	1.275	0.91	1.08	0.96	0.465	0.15	3,592,147	165,054	0.52	0.404
Local.....	1.263	1.615	1.07	.....	1.01	0.66	0.23	182,663	.....	0.585	.....
Fifth.....	\$0.833	\$1.027	\$0.858	\$0.932	\$0.768	\$0.418	\$0.157	3,910,157	2,303,229	\$0.499	\$0.42
Shipping.....	0.826	1.017	0.857	0.932	0.767	0.417	0.156	3,846,141	2,294,081	0.49	0.42
Local.....	1.45	1.557	1.12	.....	1.00	0.924	0.35	64,016	9,148	0.975	0.395
Sixth.....	0.7886	\$0.946	\$0.778	.....	\$0.619	\$0.41	\$0.139	3,296,183	2,945,664	\$0.49	\$0.42
Shipping.....	0.783	0.94	0.774	1.055	0.616	0.41	0.139	3,216,802	2,945,664	0.482	0.42
Local.....	1.228	1.32	1.115	.....	1.13	0.314	0.10	73,381	.....	0.538	.....
Seventh.....	\$0.829	\$1.038	\$0.859	\$0.94	\$0.708	\$0.556	\$0.155	3,164,051	1,214,449	\$0.461	\$0.365
Shipping.....	0.824	1.03	0.856	0.937	0.705	0.556	1.55	3,242,709	1,064,486	0.461	0.365
Local.....	1.118	1.29	1.027	1.50	1.00	0.45	0.14	71,305	.....	0.50	.....
The State.....	\$0.942	\$1.173	\$0.90	\$1.022	\$0.764	\$0.471	\$0.228	23,524,177	6,497,123	\$0.572	\$0.411
Shipping.....	0.923	1.151	0.891	1.019	0.755	0.47	0.225	22,186,812	6,637,938	0.5635	†0.4201
Local.....	1.38	1.542	1.174	1.478	1.10	0.576	0.322	1,187,402	9,148	0.723	0.395

* \$2.10 per day.

† Based on 4,818,624 tons mined exclusively by machines.



The Kelleyville Coal Company's Mine No. 3, produced 404,391 tons of coal for the year ended June 30, 1902. This is the largest tonnage ever reported from one mine in the history of coal mining in Illinois.

THE DIVERNON COAL MINE.

Description of the plant and under-ground plan of the Madison Coal Co.'s mine No. 6, at Divernon, Illinois.

The Madison Coal Company is an Illinois corporation, operating coal mines at Glen Carbon, Edwardsville, Mt. Olive, Belleville and Divernon.

The Divernon Mine is located on the St. Louis branch of the Illinois Central railroad at the village of Divernon, about 16 miles south of Springfield, the capitol of the State.

The coal seam is No. 5 of the general geological section of the State, and is 335 feet below the surface, and is from 8 to 8½ feet in thickness, with a good roof overlying the coal. This shaft was continued to seam No. 1 four feet thick at a depth of 600 feet.

The plant is capable of hoisting 2,000 tons of coal per day of eight hours.

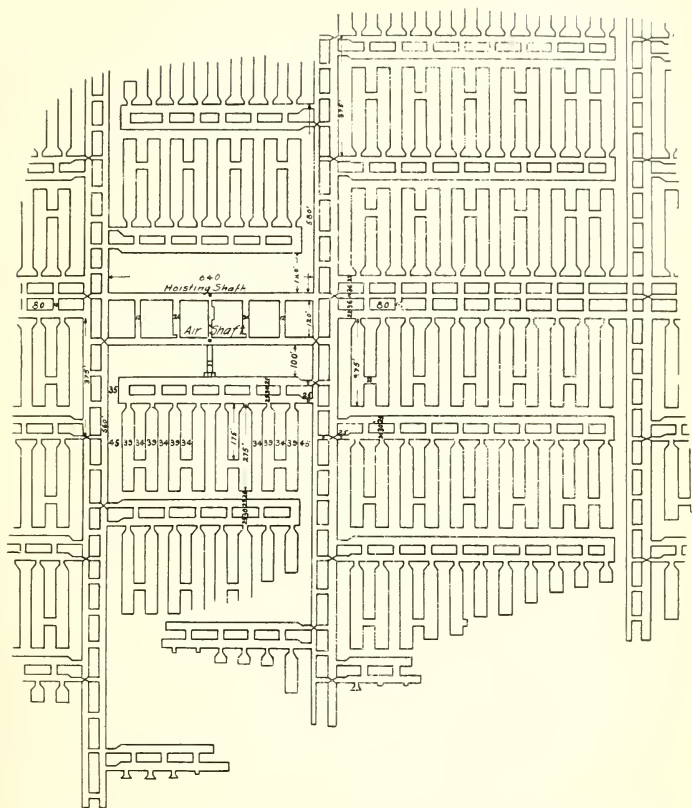
The tower is of steel, and all surface buildings are fire proof. The buildings containing the machinery are arranged in straight lines parallel to the Illinois Central Railroad tracks, the shaft tower and engine house occupying the center, and the other buildings being built right and left.

The ventilating fan is of the ordinary straight-bladed kind, is 22 feet in diameter and is driven by a 16x20 in. engine to which it is directly connected; it is in a brick building and that part directly over the fan proper is built of corrugated iron. A small belted dynamo furnished with power by this engine is designed for lighting purposes for the surface plant and shaft bottom.

A brick lined tunnel 51 feet in length connects the fan house with the air shaft. A 12-horse power general electric motor furnishes power for the forges in the shop, which is equipped with the most modern tools, among which is a Forbes pipe machine for cutting and threading pipe from one-half inch to six inches in diameter.

Two generators, each 100 K. W., are each connected direct to a high speed engine; they are arranged in line leaving room for two additional units of the same power, and each has an independent marble switchboard. These two generators furnish power for the electric mining machines, and the two electric pumps; the motors in the machine and blacksmith shops are for lighting the tower and buildings.

The room containing the hoisting engines joins the dynamo room, the whole steam plant being so arranged that the engineer can see the boilers and all machinery without leaving the hoisting engine room. The hoisting engines are of the Litchfield (Illinois) make. They are double and first mo-



UNDER GROUND PLAT-PLAN OF MADISON COAL COMPANY'S MINE NO. 6,
DIVERNON, ILLINOIS.

tion, 24x36 inches, fitted with the Beach balance valve and can be easily reversed under full head of steam. The drum is eight feet in diameter with friction brake on each end operated by the engineer's foot.

There are four boilers each 72 inches by 22 feet, three-quarter inch steel shell and 26 6-inch flues.

Two smoke stacks 120 feet high carry the smoke from these boilers.

The shaking screen is entirely of iron 47x7 feet, operated by a 16x20 inch engine.

The shaft is 17 feet 2 inches by 8 feet 7 inches, curbed with yellow pine 5x10 inches; the guides are 9x9 inches, same quality as curbing and double notched.

The escape shaft is the same size as the hoisting shaft. It is divided into an air-shaft and escape by an air-tight partition. A stairway made up of 44 eight-foot flights is built in the escape shaft. Incandescent electric lamps are placed at frequent intervals, a switch board being at the top and bottom.

The mine is opened up on a combination of the three-entry and panel system; the main entries are 22 feet wide, with a parallel air course to the right and left of each from the main shaft. Pillars 36 feet thick are left between the main entries and air courses. The passageway is eight feet wide and ten feet high, connecting the main shaft with the escape shaft; the office of the mine manager is located in this passageway.

The main entries are timbered with 12x12 inch by 24 feet white oak collars; cross entries are driven double 20 feet wide. The stub entries are driven double and coal worked out on the panel system, each panel having about 12 rooms.

The ample power provided for mining, hoisting, haulage, pumping and the large mine cars with the graded tracks below will enable this mine to produce a daily output of 2,000 tons in eight hours.

OBITUARY.

Ebenezer Howells, Springfield, Ill., Secretary of the State Mining Board, and ex-Secretary of the Illinois Miners' Union, died at his home in Springfield, Dec. 27, 1902.

Mr. Howells was born in Monmouthshire, Eng., Dec. 8, 1843, of Welsh parentage, and came to this country in 1880, where he worked in the coal mines at Streator and Braceville until 1890, when he was elected Secretary-Treasurer of District No. 12 of the United Mine Workers of America. This office he continued to fill with credit and entire satisfaction until 1892, when he resigned to accept the Secretaryship of the Clear Lake Co-operative Coal Co., to which position he had been appointed. Later he sold out his stock in the concern and returned to Braceville, where he engaged in coal mining until after the inauguration of the late Governor Tanner, who appointed him Secretary of the State Mining Board. This position he held during that administration, and when Governor Yates was inaugurated he was continued in office. This position he continued to fill in a manner that was honorable to himself and a credit to both administrations until the time of his demise.

Mr. Howells in his life, public and private, had a large circle of friends, and was always impressed with a sense of the responsibilities placed upon him, and a strong desire to deserve the trust and esteem of his friends. His administration of the affairs of the office he held was characteristic of the man, impartial, honest, and upright. He felt the great responsibility the board and himself were under towards the coal industry, and sought to make it a credit to the service.

The Commissioners of Labor unite with his friends in deploring his loss and express their heartfelt sympathy to his widow and family in their great bereavement.



THE SOUTHERN ILLINOIS COAL MINING & WASHING CO., MINE
NO. 3. LOCATED AT MARION, ILLINOIS.

The hoisting of coal at this mine began in October, 1901. The mine is 120 feet to the coal, the size of this shaft is 10x20 feet. The coal runs from 9 to 10 feet in thickness, and is of a very good quality, being much freer from sulphur than the majority of coals in this field. The top works are constructed entirely of steel with concrete foundations. The engine and boiler house is built of hollow building tile with steel truss roof supporters; the smoke stack is brick, 100 feet high, 17 feet in diameter at the base and seven feet in diameter at the top. The mine is equipped with Crawford and McCrimmon first motion hoisting engines, 20x36 inches, with conical drum, steam brake and reverse; also a McEwan dynamo engine and Link-Belt dynamo, with sufficient power to run 14 electric chain breast mining machines. The steam power is furnished by four tubular boilers, of 150 H. P. each, equipped with Murphy furnaces and automatic stokers. The plant is well supplied with fire pumps and sufficient hose to reach any part of the top works in case of fire.

The washer was completed in June, 1902, and has a washing capacity of 1,500 tons; this is also equipped with an unloading device capable of unloading 100 tons per hour. The coal is screened by a J. A. Parker shaker screen. The fan is 20-foot with direct connection and has a capacity of 180,000 cubic feet of air per minute.

The mine is now hoisting 1,200 to 1,400 tons per day, and when fully opened up will have a capacity to hoist 2,500 tons in eight hours. The pit-cars hold 3½ tons, and are dumped and hoisted on automatic dump cages.



SOUTHERN ILLINOIS COAL MINING
AND WASHING CO.
MARION, ILLINOIS.

NUMBER FIVE MINE OF THE SPRING VALLEY COAL COMPANY.

The Spring Valley Coal Company possesses over 50 square miles of land, situated in Bureau, Putnam and LaSalle counties, Illinois, and now operate five shafts.

The new No. 5 shaft is located northeast of Spring Valley, in Bureau county. This shaft is 420 feet to the coal seam, which is three feet six inches thick, and is No. 2 of the general geological series, and is known commercially as "Third Vein Coal."

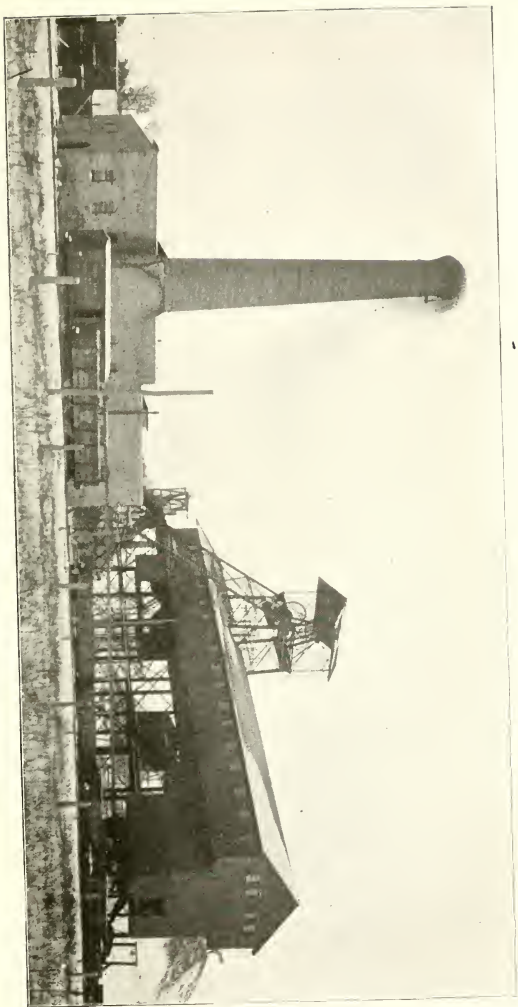
The mining is entirely by the Scotch long-wall method, all entries and rooms being turned at an angle of 45 degrees; rooms are spaced every 60 feet on the cross entries, which are at intervals of 225 feet; the main entries are 1,200 feet apart; no coal is left in the mine as pillars except at the shafts, where a pillar of coal is left to protect the alignment of the shaft as well as the surface plant.

Overlying the coal seam is a flexible shale, which, after the coal is undercut in the fire-clay, produces sufficient pressure to mine the coal without crushing it; this roof pressure brings out the coal without the use of powder, thus producing a large percentage of lump coal. The shaft was sunk as a double compartment shaft, 12 feet wide by 16 feet long. Two pit-cars can stand end to end on each cage; these cars are pushed by two Ramsey steam pushers, or rams, 7 $\frac{1}{4}$ inches in diameter and 16 $\frac{1}{2}$ feet stroke, and are operated by one man. The cars, after leaving the cages, run by gravity on tracks on an elevated platform 51 feet long, capable of holding 14 loaded cars. The tracks and grades are all constructed so that the loaded and empty cars run automatically.

The tower and tipple is 187 feet long and 38 feet wide, composed entirely of iron and steel. The size and equipments of this mine give it a capacity of 2,000 tons a day of eight hours.

The entire surface plant is fire proof. The engine house is 44 $\frac{1}{2}$ x46 feet, built entirely of stone, and contains two first motion engines of the Corliss type, 24 inch cylinders and 42 inch stroke.

The boiler house is also of stone, 62x50 feet, and now has four tubular boilers 72 inches by 18 feet, each with 78 four-inch flues. All the boilers are connected by steel breeching to a circular brick stack 102 feet high, with a seven-foot flue.



SPRING VALLEY COAL CO., MINE NO. 5, DALZEL.

The hoisting is entirely by steel cages, running on guides, which are 60-pound Tee rails. On each side of the shaft the bottom landing is 250 feet long by 14 feet wide between masonry walls; the roof between the walls is covered by 12 inch steel I-beams, four feet space from centre to centre, arched with brick. This makes the shaft bottom landings completely fire-proof; the bottom landings as well as the shaft are all on the coal pillar as well as the surface plant. The air shaft is 8x12 feet with a stairway in one compartment.

The main entries run east and west, and north and south. The side entries branch from the main at an angle of 45 degrees; the workings are in a circle, 100,000 props 4½ feet high are used each month. The work is all hand mining, and every where in the mine the air is always good; the ventilation is much better than in the homes of many people and far better than is found in most public assembly rooms.

The miners are of many nationalities, mostly Poles, Austrians and Italians. The men in charge are for the most part Scotch, Welsh, English and Americans. The General Manager, S. M. Dalzell, is known as one of the most successful coal operators in the State, having been connected with coal mining for over 30 years; he possesses large executive ability and is thoroughly practical in every essential.

CHICAGO WILMINGTON AND VERMILION COAL COMPANY, LO-
CATED AT THAYER, ILLINOIS.

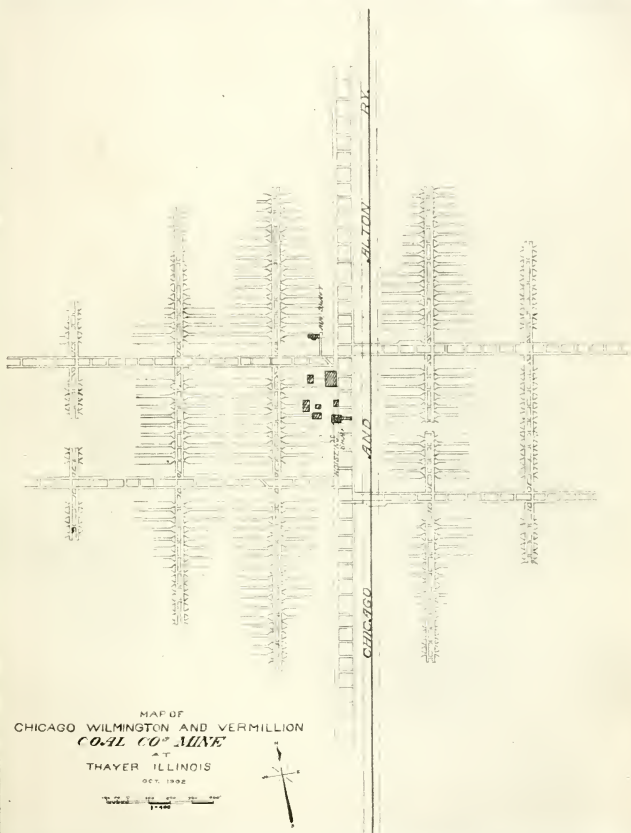
The Chicago Wilmington and Vermilion Coal Company is one of the oldest, if not the oldest, coal mining companies in Illinois. Mr. A. L. Sweet, president of this company, is a veteran in the coal business, having been connected with coal mines and mining for the past 35 years.

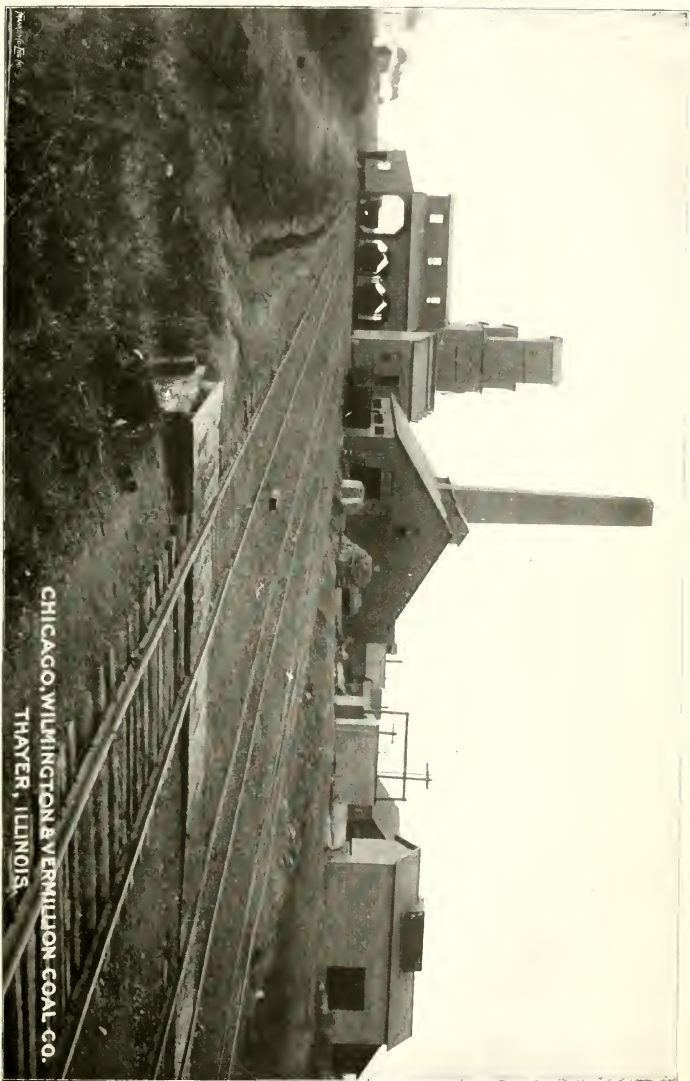
The operations of this company have heretofore been confined to the northern field; now it has entered the central field and opened up at Thayer, Sangamon county. The sinking of this shaft was started by breaking ground for the main shaft, June 7, 1900; the coal seam was reached at 304 feet below the surface, September 7, the same year. The coal reached is seam No. 5 of the general geological series and is 7 feet 11 inches thick.

The main shaft is 13 feet 5 inches by 19 feet 5 inches; the air shaft is 14x16 feet.

The development of this property has been quite marvelous. January 15, 1901, the production was 250 tons per day; September 15, 1,000 tons; December, 2,000 tons, and for the month of March, 1903, 43,500 tons.

This plant is first-class in every respect and among the best in the State





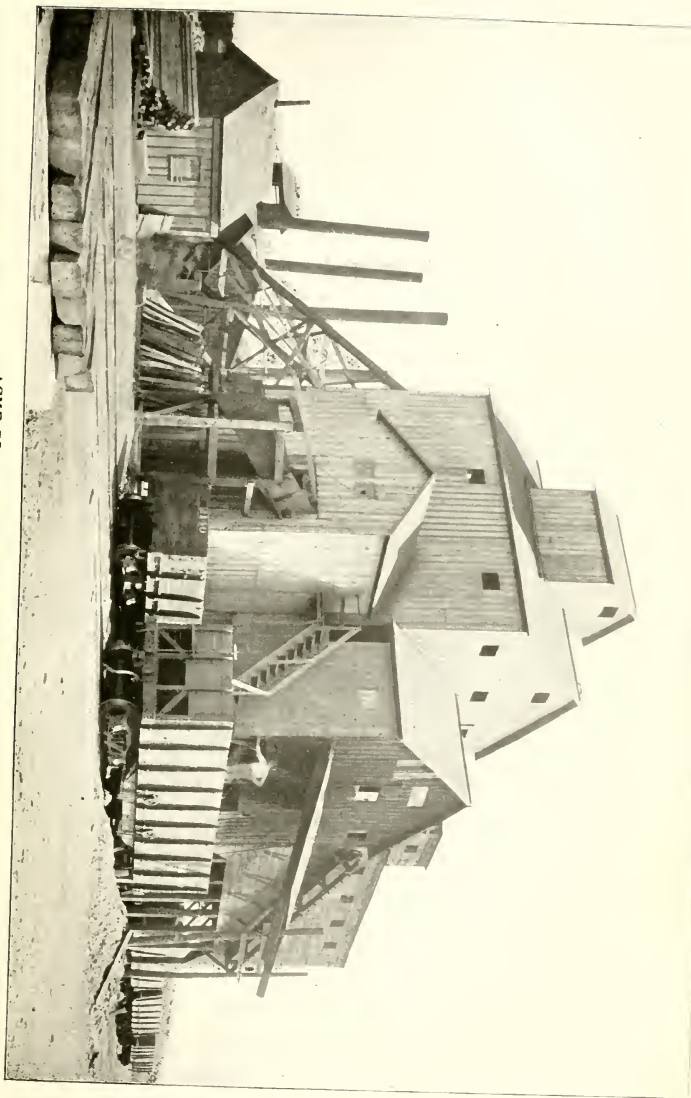
CHICAGO, WILMINGTON & VERMILION COAL CO.
THAYER, ILLINOIS.

THE ACME COAL COMPANY MINE AND COAL WASHER, STREATOR,
ILLINOIS.

This mine was sunk in 1892 and is located on the Santa Fe and Chicago & Alton railroads. The shaft is 110 feet below the surface to the geological coal seam No. 7, which at this place is seven feet six inches thick.

The equipment of this mine is first-class for a mine of its capacity. It has double-gearred motion hoisting engines, four boilers and shaker screens so constructed as to allow coal to be loaded to wagon trade without any more labor than loading on railroad cars.

The main shaft is 6x12 feet opening and the escape shaft is 5x9 feet. The capacity of the mine is 700 tons per day of eight hours. In connection with the mine is a complete coal washing plant which has a capacity of 400 tons per day. The coal is of very good quality, especially for steam use, and finds a ready market, allowing the miners to work steady all the year.



ACME COAL COMPANY, STREATOR, ILL.

ANNUAL REPORTS

OF THE SEVERAL

STATE INSPECTORS OF COAL MINES

FIRST INSPECTION DISTRICT—1902.

NINETEENTH ANNUAL REPORT.

Counties—Grundy, Kankakee, LaSalle, Livingston, Will.

HECTOR McALLISTER, *Inspector*, Streator.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Ill.

SIR:—In compliance with section 12 of an act of the General Assembly of the State of Illinois, defining the duties of State inspectors of coal mines, and providing for the health and safety of persons employed therein, I herewith submit to you the nineteenth annual report of coal mines in the first inspection district, for the year ended June 30, 1902.

The district includes the coal-producing counties of Grundy, Kankakee, LaSalle, Livingston, and Will. The report contains tabulated statements showing the number of mines in operation, both shipping and local; the depth of coal below the surface; the thickness of the various seams, and the geological number thereof; the number of new and abandoned mines; the total number of persons employed at each mine; the number of tons of lump and other grades of coal produced; the price per ton paid for mining; the value of lump and other grades of coal per ton at the mine and the aggregate value of the total product; the number of kegs of powder consumed; the casualties in and around the mines, both fatal and non-fatal; the number of wives made widows, and children left fatherless, caused by fatal accidents, and the number of days of active operation of all mines in the district.

The following is a summary for all the counties in the district:

Total number of mines.....	77
Number of shipping mines.....	33
Number of local mines.....	44
Number of new mines.....	8
Number of abandoned mines.....	11
Number of miners.....	6,115
Number of other employés.....	1,920
Total number of employés.....	8,035
Number of fatal accidents.....	15
Number of non-fatal accidents.....	80
Number of wives made widows.....	9
Number of children left fatherless.....	30
Total tons of coal produced.....	3,729,724
Tons of lump.....	2,306,263

Tons of mine run	378,921
Tons of egg	114,879
Tons of nut	108,509
Tons of pea or screenings	786,489
Tons of slack or waste	34,658
Average value per ton of lump at the mine	\$1.35
Average value per ton of mine run at the mine	\$1.261
Average value per ton of egg at the mine	\$1.253
Average value per ton of nut at the mine	\$1.03
Average value per ton of screening at the mine	\$0.511
Average value per ton of slack at the mine	\$0.23
Aggregate value of total product	\$4,245,287
Average price paid per gross ton for hand mining	\$0.73
Average price paid per gross ton for machine mining	\$0.56
Average number of days of active operation	246.2
Number of mines operated by hand mining	75
Mines using machines	2
Number of kegs of powder used	42,519
Number of steam boilers in use at mines, horizontal	116
Tons of coal cut by machines	2,258
Number of machines in use	5
Number of tons of coal shipped	3,098,704
Tons supplied to locomotives	114,869
Tons sold to local trade	297,286
Tons consumed at the plant	218,865
Tons of coal mined to each fatal accident	266,409
Tons of coal mined to each non-fatal accident	46,622
Number of employes to each fatal accident	534
Number of employes to each non-fatal accident	100

Coal Production by Counties in the First District, with the Increase or Decrease in each for the Years Ended June 30, 1901 and 1902.

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1901	1902		
Grundy	1,293,092	1,383,336	90,244	.....
Kankakee	86,745	51,901	.....	34,844
LaSalle	1,883,561	1,894,510	10,949	.....
Livingston	294,824	348,291	53,467	.....
Will	59,976	51,686	.....	8,290
Total	3,568,198	3,729,724	154,660	43,134
Net increase			111,526	.....

The counties of Grundy, LaSalle and Livingston show an increase of 154,660 tons, and the counties of Kankakee and Will show a decrease of 43,134 tons, leaving a net increase for the district of 111,526 tons or 3.13 per cent over the output of 1901.

New Mines—Lewis Evans and Samuel Myers have opened new mines one mile north of Kangley, LaSalle county, to supply the local trade.

Thomas Smith & Sons have sunk a shaft northwest of Streator, LaSalle county, intended to supply the local trade.

Corcoran Bros. and Mitchell Bros. have sunk new mines near Morris, Grundy county.

John O'Connor & Co. have sunk a shaft one mile north of Braidwood, Will county, to supply local trade.

Murphy, Keenan & Co., of Braidwood, Will county, have sunk a new shaft a quarter of a mile south of their old shaft. All the machinery and top works of the old shaft have been removed to the new mine and the old one abandoned.

Abandoned Mines.—The Star Coal company has abandoned its No. 1 mine at Carbon Hill, Grundy county.

The following mines have been abandoned in LaSalle county: The Wilsman Coal Co. of Wilsman; Sowerby Bros. and Bamwell Bros. of Streator. The Co-operative Coal Co. of Braidwood, Will county, has abandoned its mine. March 18, 1902, the hoisting shaft of the Diamond Coal company of Pontiac caved in and the mine has been abandoned indefinitely.

Alexander Anderson has leased the mine formerly operated by Benjamin Davis in Livingston county.

J. E. Buchanan has opened out the old mine formerly operated by J. Massy & Son, Livingston county.

Mine Fires.—March 26, 1902, a fire broke out at the Reilly Moffat & Co. mine in Braidwood, Will county, which destroyed the tower, engine house and boiler room. It is supposed that the fire originated from a hot box on the shaker screen. Owing to the bad condition of the mine it has been abandoned.

Improvements.—The LaSalle County Carbon Coal company has constructed two new overcasts at its No. 1 mine, making six separate splits in the mine, and the ventilation of the mine is greatly improved. The company has also built an incline plane, 750 feet long, to connect with the C., B. & Q. railway. The pit cars are run by an endless chain, manufactured by the Link Belt Machine company of Chicago. The cages of the escape shaft have been taken out and replaced with substantial stairways. A Victor box car loader has also been put in at this mine.

The Wilmington Star Mining company of Coal City has put in a coal washing plant of 400 tons capacity at its No. 5 mine.

Prospective Mines.—The North Wilmington Coal company of Seneca is sinking a new shaft within the city limits.

Fatal Accidents.—July 8, 1901, Mike Kmetz, miner, age 43 years, married, was instantly killed by a fall of coal at the face of his working place in No. 2 mine of the C. W. & V. Coal Co., Streator, LaSalle county. Deceased was mining on the bench when the top coal fell, knocking him off and falling on his head, with the above result. He leaves a widow and four children.

Aug. 29, 1901, Philip King, trapper, age 15 years, was seriously injured in No. 2 mine of the C. W. & V. Coal Co., Streator, LaSalle county. A driver came out of the 16th right entry with a loaded trip; there was an empty trip at the parting, waiting to go in; the driver asked the boy if all was clear for him to go in straight, and he told him to come ahead, but he had neglected to change the latches for the straight; the empty cars took to the right and caught the boy against the coal rib, injuring him so that he died at 10:40 p. m. the same day.

Sept. 26, 1901, Domonic Brido, miner, age 37, married, was instantly killed by a fall of rock at the face of his working place in No. 3 mine of the Big

Four Coal company, Coal City, Grundy county. He was working on the right hand side of his room, when a mass of rock fell on him, killing him instantly. He leaves a widow and seven children in Italy. -

Oct. 2, 1901, G. M. Julius, miner, age 37 years, married, leaves a widow, was severely injured by a fall of coal at the face of his room; he had cut through the pillar to an old room, and was mining under the top coal, which was loose on both ends, when it fell without warning, crushing him on the right hip and shoulder. He was taken to the hospital, where he died.

Oct. 22, 1901, James Nisanatto, miner, age 30 years, married, was instantly killed by a fall of rock in his roadway, about 8 feet from the face, in the Carbon Hili mine No. 3 of the Star Coal company, Grundy county. He was pulling an empty car into his place, when a rock suddenly fell on him, with the result as stated. He leaves a widow and one child.

Oct. 27, 1901, Richard Savage, machinist, age 42 years, married, was fatally injured by falling part way down the shaft of the Cardiff Coal company, Cardiff, Livingston county. Deceased and the engineer were putting on a new rope. After putting on the rope, the engineer ran the cage up and down two or three times, but did not know how far the cage was from reaching the bottom; to find out, deceased went down on the south cage; when the cage stopped, he called up to the men above to tell the engineer not to move the cage. After waiting a reasonable time, they called down to him, but received no answer. One of the men then went down the escape shaft; when he came to the bottom of the hoisting shaft he found Savage lying in the cage hole. It is supposed he got between the buntings, to see how far he was from the bottom, and fell a distance of 44 feet; he was unconscious when taken out, and remained so until he died, one hour and a half after the accident. He leaves a widow and six children.

Nov. 6, 1901, Robert Jordan, mine manager, age 44 years, married, was severely injured by a fall of rock in the Heenanville No. 1 mine of the C. W. & V. Coal Co., Streator, LaSalle county; about 5:30 a. m., when the mine examiner was examining a room in the eighth right north (there are four of those rooms), where the men were taking out the pillars; the squeeze had come on during the night; the mine examiner pulled out all the rails he possibly could without danger; he then reported the room in a dangerous condition. Jordan went to this room shortly after 7:00 a. m.; the men belonging to the room were standing on the entry. He went down one of the rooms and saw a pair of wood rails; he called for some of the men to come to help him get the rails out; he pulled one out, and was in the act of pulling out the other, when a rock suddenly fell on him, breaking his right leg. He also received internal injuries, from the effect of which he died May 31, 1902, nearly seven months after the accident occurred. Deceased leaves a widow and six children.

Nov. 19, 1901, Anton Planety, miner, age 55 years, married, was instantly killed at the face of his working place in No. 5 mine of the Wilmington Star Mining company, Coal City, Grundy county. He was taking down coal, when a rock fell on him, which caused his death. He leaves a widow and nine children.

Dec. 4, 1901, John P. Carlson, miner, age 50 years, married, was killed in the Braceville Coal company's mine, Braceville, Grundy county. He met his death at the working face by an explosion of powder. He had drilled a hole in the coal, which passed through sulphur; when he put in the cartridge it would not pass the sulphur; he put in the drill, sharp end first, to open the cartridge, but the drill struck the sulphur and ignited the powder, with the result as stated.

Dec. 10, 1901, John Dalery, miner, age 38 years, single, was severely injured by a fall of rock at the working face in the Coöperative Coal company's mine, Fairbury, Livingston county. He was loading a car, when a rock suddenly fell on him, causing his death two hours after the accident.

Jan. 9, 1902, Vincent Kuc, miner, age 36 years, single, was fatally injured by a blow on the head from a prop in the Oglesby Coal company's mine, Oglesby, LaSalle county. Deceased was standing about six feet from the face; his partner was taking down a fall of coal, which knocked out a prop, striking Kuc on the head. He was taken to the hospital in LaSalle, where he died the same day.

Feb. 12, 1902, Eldred P. Mead (colored), employed as a miner, age 28 years, married, was instantly killed at the face of his working place in No. 4 mine of the Star Coal company, Carbon Hill, Grundy county. Deceased fired a shot in the coal on the right hand side of his room. He immediately returned to observe the effect of the shot, when a rock fell on him, with the result as stated. He leaves a widow and one child.

Feb. 24, 1902, Frank Paulson, miner, age 33 years, single, was fatally injured by a fall of rock at the working face in the Standard Coal company's mine, Seneca, LaSalle county. He fired a blast in the brushing to knock it down, and commenced cutting on the right side without securing it with timber. While at work the rock fell, crushing him on the back and shoulders. He died three hours afterwards.

April 4, 1902, John Rich, driver, age 19 years, single, was killed in the Acme Coal company's mine, Streator, LaSalle county. Deceased was coming out of a room with two loaded cars, and was standing on the coupling between the cars when his head was caught between a cross bar and the coal on the car, breaking his neck.

June 30, 1902, James Knott, miner, age 22 years, single, was killed in Clark City mine of the Gardner Wilmington Coal company, Kankakee county. Deceased was struck on the head by a piece of coal flying from a blast. The mine is working the long wall system and was being opened out between the rooms. The shot blew through the coal to the next room, with the result as stated.

The tables of casualties follow, also the statistical tables by counties, giving in detail all information regarding the coal industry in this district.

Respectfully submitted,

HECTOR MCALLISTER,

State Inspector of Mines, First District, Streator.

Fatal Casualties—First District—July 1, 1902.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widows.	Children.	Single.	Depend'ts	Cause of Accident.
1901										
July 8	Mike Kmetz	43	Miner	Streator	1	1	4	..	5	Falling coal
Aug. 29	Philip King	15	Trapper	Streator ....	..	..	..	1	..	Pit cars
Sept. 26	Demonic Brido	37	Miner	Diamond	1	1	2	..	3	Falling rock
Oct. 2	G. M. Julius	37	Miner	Streator	1	1	..	..	..	Falling coal
Oct. 22	James Nisanatto	30	Miner	Carbon Hill ..	1	1	1	..	2	Falling rock
Oct. 27	Richard Savage	42	Machinist ..	Cardiff	1	1	6	..	6	Falling down shaft..
Nov. 6	Robert Jordan	44	M'ne man'gr	Streator	1	1	6	..	6	Falling rock
Nov. 19	Anton Planetz	55	Miner	Coal City	1	1	7	..	3	Falling rock
Dec. 4	John P. Carlson	50	Miner	Braceville ..	1	1	..	..	1	Powder explosion ..
Dec. 10	John Daley	38	Miner	Fairbury .....	..	..	..	1	..	Falling rock
1902										
Jan. 9	Vincent Kuc	36	Miner	Oglesby .....	..	..	..	1	..	Falling prop
Feb. 12	Eldred P. Mead	28	Miner	Carbon Hill ..	1	1	1	..	2	Falling rock
Feb. 24	Frank Paulson	33	Miner	Seneca .....	..	..	..	1	..	Falling rock
Apr. 4	John Rich	19	Driver	Streator ....	..	..	..	1	..	Pit car
June 30	James Knott	22	Miner	Clark City ..	..	..	..	1	..	Flying coal
	Total—15				9	9	27	6	28	

Recapitulation of Fatal Casualties—First District—1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Braceville....	1	Drivers	1	Blow from prop....	1	Acme Coal Co.....	1
Coal City	1	Miners	11	Falling coal	2	Braceville Coal Co ..	1
Clark City	1	Mine manager	1	Falling rock	7	W. Big 4 Coal Co....	1
Cardiff	1	Machinist	1	Flying coal	1	C. W. & V. Coal Co ..	4
Carbon Hill..	2	Trapper	1	Falling down shaft	1	Cardiff Coal Co	1
Diamond	1			Powder explosion..	1	Coöperative Coal Co.	1
Fairbury	1			Crushed by plt cars	2	Gardner Wil. Coal Co	1
Oglesby	1					Oglesby Coal Co.....	1
Streator	5					Starr Coal Co.....	2
Seneca	1					Standard Coal Co....	1
						Wil. Star M. Coal Co.	1
Totals	15		15		15		15

Non Fatal Casualties—First District—July 1, 1902.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury.	Time lost—days.
1901									
July 8	S. Roth	38	Peru	1	....	4	3	Back bruised, falling rock....	45
16	John Tall	53	LaSalle	1	....	5	6	Arm injured, falling coal	30
20	F. Beonestto	25	Carbon Hill.	1	....	2	3	Hand and body injured, falling coal	35
23	William Watkins	36	S. Wilm'ton	1	....	2	3	Shoulder injured, falling timber	30
27	R. Pellegrini	48	Carbon Hill.	1	....	..	..	Leg broken, falling rock	42

Non-Fatal Casualties—First District—July 1, 1902—Continued.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent	Character and cause of injury.	Time lost—days.
Aug. 6	S. Pasqual	40	S. Wilm'ton	1	...	4	5	Leg broken, falling coal	126
8	W. Canvensky	32	S. Wilm'ton	...	1	...	...	Arm broken, falling coal	56
13	Geo. Starkey	72	Clark City	1	...	2	...	Hand and foot inj'd, fall'g rock	164
24	James Pryde	35	Oglesby	1	...	4	5	Head injured, sinking bucket	45
24	Frank Movak	15	Carbon Hill	...	1	...	...	Ribs broken, falling rock	30
Sept. 4	James Rankin	26	LaSalle	...	1	...	...	Leg injured, pit car	60
7	Andrew Geib	53	LaSalle	1	...	1	1	Hand injured, pit car	36
12	James Allen	43	Carbon Hill	1	...	1	2	Foot injured, falling coal	42
21	Mike Buffo	31	Braceville	1	...	2	3	Face injured, premature blast	154
24	John Clark	55	Diamond	1	...	7	3	Hand injured, pit car	95
26	J. J. Sordi	35	Kangley	1	...	4	5	Leg injured, pit car	98
27	B. Reva	31	S. Wilm'ton	1	...	2	3	Finger broken, falling coal	56
Oct. 14	Mike Mahen	70	Braidwood	1	...	5	3	Back injured, falling rock	70
18	Mike Stample	20	Kangley	...	1	...	...	Leg injured, falling rock, amputated.	180
18	Chas. Frasco	37	S. Wilm'ton	...	1	...	...	Leg injured, falling coal	42
20	John Nadik	39	Rutland	...	1	...	...	Back broken, falling rock	...
Nov. 4	A. Morstour	30	S. Wilm'ton	1	...	1	...	Arm broken, falling coal	63
12	Frank Martin	30	Eileen	1	...	1	1	Head injured, falling rock	30
12	R. McCambridge	47	Braidwood	1	...	5	6	Back injured, falling rock	50
17	Thos. Holmes	34	Streator	1	...	2	3	Head and body injured, falling bucket	36
21	Archibald White	24	Heenanville	...	1	...	...	Back injured, falling rock	36
21	John Broderick	20	Braidwood	...	1	...	...	Finger injured, pit car	42
22	Frank Kolaski	30	LaSalle	...	1	...	...	Foot injured, falling coal	60
23	Joe Cutta	24	S. Wilm'ton	...	1	...	...	Leg broken, falling rock	91
27	W. Pendy	37	S. Wilm'ton	1	...	4	5	Hand injured, falling rock	77
Dec. 8	James Lillie	47	Streator	1	...	8	9	Shoulder broken, falling rock	42
4	P. P. Anderson	48	Braceville	1	...	...	1	Face injured, explosion of powder	63
6	Geo. Rohal	35	S. Wilm'ton	1	...	3	4	Foot injured, falling coal	35
7	James Cartlo	57	LaSalle	1	...	5	6	Leg broken, falling coal	...
12	Samuel Fellows	16	S. Wilm'ton	...	1	...	...	Arm broken, falling rock	49
14	William Kidd	17	Oglesby	...	1	...	...	Leg broken, pit car	90
16	Henry Ohlinder	45	Streator	...	1	...	...	Shoulder injured, falling rock	†
18	John Oleschlager	50	LaSalle	1	...	3	1	Ankle injured, falling rock	75
20	John Walker, Jr.	18	Braidwood	...	1	...	...	Arm injured, falling rock	70
21	Chas. Scholl	56	Braidwood	1	...	7	5	Back injured, falling rock	130
26	David Solburg	28	Streator	1	...	3	4	Foot injured, pit car	34
30	L. McGrath	59	Braidwood	1	...	5	3	Hand injured, falling coal	187
30	James Pollerson	23	Carbon Hill	...	1	...	...	Hand injured, pit car	30
31	Joe Henderson	50	Coal City	1	...	7	7	Hip injured, falling rock	35
1902									
Jan. 4	A. Scoronish	40	Carbon Hill	1	...	4	5	Shoulder broken, falling rock	30
6	John Griffith	54	Streator	1	...	4	4	Ribs broken, falling of bench	34
14	James Sinclair	44	Braidwood	1	...	5	5	Shoulder injured, falling coal	54
23	S. Anselino	30	Carbon Hill	...	1	...	...	Leg broken, falling coal	56
24	Frank Gaudick	36	Oglesby	...	1	...	...	Leg broken, falling coal	90
25	John Cooper, Sr.	60	Braidwood	1	...	7	5	Leg injured, falling coal	97
27	Thos. Mosley	55	Peru	...	1	...	...	Face injured, pit car	44
30	John Conavatta	26	Diamond	...	1	...	...	Shoulder injured, falling rock	30
Feb. 17	Mike Polhad	42	Streator	1	...	6	6	Foot injured, falling rock	53
17	Chas. Tenolio	40	S. Wilm'ton	1	...	3	4	Leg injured by pick	35
20	S. Fassino	23	S. Wilm'ton	...	1	...	...	Shoulder injured, falling rock	35
25	W. O. Scroggins	42	Essex	1	...	3	4	Leg injured, machinery	60
Mar. 4	James Keys	15	LaSalle	...	1	...	...	Leg broken, falling from bridge	*
5	Frank Palda	65	LaSalle	1	...	1	2	Ribs broken, falling rock	40
5	James McCall	58	Braidwood	1	...	5	4	Knee injured, falling rock	*
12	Martin Emcko	37	S. Wilm'ton	1	...	3	4	Hand injured, flying wedge	42
14	James Baber	27	S. Wilm'ton	...	1	...	...	Foot injured, falling rock	49
14	William Hill	58	Streator	1	...	...	...	Ribs broken, struck by rail	60
17	John Kriawaski	45	Pontiac	1	...	2	3	Body injured, falling rock	120
19	Andrew Wilson	42	Clark City	1	...	8	7	Hand injured by cage	52
24	A. Jayne	32	Carbon Hill	1	...	3	3	Back injured, falling rock	42
27	D. Rauchette	45	S. Wilm'ton	1	...	5	6	Hand injured, falling coal	35
31	Vic Ayer	27	S. Wilm'ton	...	1	...	...	Hand injured, falling rock	42

Non-Fatal Casualties—First District—July 1, 1902—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury.	Time lost—days.
Apr. 7	Frank Poleyer....	35	LaSalle.....	1	...	1	2	Leg injured, falling coal.....	*
10	Joe Belesio.....	35	S. Wilm'ton.....	1	...	1	...	Hand injured, falling rock....	35
12	John Lafferty....	19	Braceville.....	...	1	...	...	Thigh broken, pit car.....	79
16	John Nichols.....	35	Pontiac.....	1	...	1	...	Back injured, falling rock....	30
18	T. Eristo.....	36	Carbon Hill.....	1	...	2	3	Back injured, falling rock....	30
28	Thos. Lewis.....	35	S. Wilm'ton.....	1	...	1	...	Foot injured, pit car.....	35
May 16	M. March.....	30	Carbon Hill.....	1	...	1	2	Leg broken, falling rock....	40
29	R. T. McAllister..	...	Deer Park.....	1	...	1	2	Leg broken, falling rock....	*
31	William Garret....	52	Oglesby.....	1	...	1	2	Body injured, falling coal....	*
June 9	H. Thom.....	31	Carbon Hill.....	1	...	3	4	Toe broken, pit car.....	*
10	M. Limbode.....	23	Carbon Hill.....	...	1	...	...	Body injured, falling rock....	*
12	Henry Foster.....	16	Pontiac.....	...	1	...	...	Leg broken, falling rock....	*
16	L. Valliom.....	20	Carbon Hill.....	...	1	...	...	Leg broken, falling rock....	*
Totals .....		...	...	49	31	166	178	.....	4110

*Not recovered July 1, 1902.

†Died Dec. 20, 1902, of heart failure.

Recapitulation of Non-Fatal Casualties—First District—1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Braceville....	3	Cagers.....	2	Cage.....	1	Acme Coal Co.....	2
Braidwood....	10		1	Explosion, powder.....	2	Braceville Coal Co....	3
Carbon Hill..	13	Carpenter....	1	Falling coal.....	17	Big Four Coal Co....	2
Coal City....	1		...	Falling rock.....	40	Cahill, James, Coal Co	2
Clark City... 2	2	Drivers.....	5	Falling off bridge....	1	C. W. & V., Coal Co..	24
Diamond.....	2	Laborers.....	1	Falling off bench....	1	Dawson, John.....	1
Deer Park....	1	Miners.....	63	Falling timbers.....	1	E. Hakes.....	1
Essex.....	1	Moter men....	1	Flying wedge.....	1	Gardner, W., Coal Co	3
Eileen.....	1	Picker.....	1	Rail.....	1	Illinois Zinc Co.....	1
Kangley.....	2	Pushers.....	1	Machinery.....	1	LaSalle Co. C. C. Co.	8
LaSalle.....	9	Road men....	2	Pick.....	1	Murphy, Keenan & Co	2
Oglesby.....	3	Sinkers.....	2	Pit cars.....	11	M. & H. Zinc Co.....	1
Peru.....	2	Top man.....	1	Sinking Bucket....	2	Oglesby Coal Co.....	3
Pontiac.....	3					Pontiac Coal Co.....	3
Rutland.....	1					Star Coal Co.....	16
Streator.....	8					Wilm., C.M. & Mfg. Co	8
S. Wilmingt'n	18						
Total.....	80		80		80		80

Total men injured	80
Not recovered July 1, 1902	11
Number recovered July 1, 1902.....	69
Time lost by men recovered	4,110 days
Average days lost by men recovered.....	62.93

*Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-
jugal Relations and Time Lost.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Arms broken.....	3	.....	3	.....	168	56	3.75
Arms injured.....	2	1	1	6	100	50	2.5
Ankles injured.....	1	1	.....	1	75	75	1.25
Back broken.....	1	.....	1	.....	*	.....	1.25
Back injured.....	8	6	2	23	433	54	10.00
Body injured.....	4	3	1	8	156	39	5.00
Face burned.....	1	1	.....	1	63	63	1.25
Face bruised.....	2	1	1	3	198	99	2.50
Foot injured.....	7	4	3	17	308	44	8.75
Finger broken.....	1	1	.....	3	56	56	1.25
Finger injured.....	1	.....	1	.....	42	42	1.25
Hand and body.....	1	1	.....	3	35	35	1.25
Hand and foot.....	1	1	.....	.....	164	164	1.25
Hand injured.....	10	7	3	29	631	63	12.50
Head cut.....	2	2	.....	6	75	37.5	2.50
Hip injured.....	1	1	.....	7	35	35	1.25
Knee fractured.....	1	1	.....	4	*	.....	1.25
Legs broken.....	13	6	7	17	535	41	16.25
Leg amputated.....	1	.....	1	.....	180	180	1.25
Legs injured.....	6	4	2	18	392	65.3	7.50
Ribs broken.....	4	3	1	6	164	41	5.00
Shoulder broken.....	2	2	.....	14	72	36	2.50
Shoulder injured.....	5	2	3	8	149	29.8	6.25
Thigh broken.....	1	.....	1	.....	79	79	1.25
Toe broken.....	1	1	.....	4	*	.....	1.25
Total.....	80	49	31	178	4,110	62.91	100.00

* Still idle.

Grundy County—First District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Braceville Coal Co., 5.....	Braceville	177,014	135,714	.....	.....	.....	41,300
2	Wilmington Star Mining Co., 5..	Coal City	79,918	60,623	936	.....	3,065	15,294
3	Wilmington Star Mining Co., 6..	do	61,559	29,353	3,941	.....	14,716	13,519
4	Star Coal Co., 1	Carbon Hill ..	87,891	61,699	7,635	.....	.....	18,557
5	Star Coal Co., 3	do	112,033	88,636	2,890	.....	.....	20,507
6	Star Coal Co., 4	do	35,577	26,982	.....	.....	.....	8,595
7	C., W. & V. Coal Co., 1	S. Wilmington ..	273,538	168,774	2,370	50,189	.....	52,206
8	C., W. & V. Coal Co., 2	do	47,852	22,022	1,299	14,263	.....	10,268
9	Wilm. Coal M. & Mfg. Co., 4	Diamond	179,751	144,850	.....	.....	.....	34,901
10	Wilm. Coal M. & Mfg. Co., 5	do	60,027	46,155	.....	.....	.....	13,872
11	Big 4 Wilm. Coal Co., 2	Coal City	120,388	78,975	.....	17,608	3,022	20,783
12	Big 4 Wilm. Coal Co., 3	do	121,204	65,463	33,575	.....	.....	17,166
Totals			1,356,752	923,276	57,646	82,059	20,803	266,968
LOCAL MINES.								
1	J. T. Espley & Co	Morris	2,500	2,300	.....	.....	.....	200
2	James Heather	do	3,075	3,075	.....	.....	.....	.....
3	Morris Carbon Coal Co.	do	3,525	3,225	.....	.....	.....	300
4	James Bell	do	1,814	1,464	.....	.....	.....	350
5	William Wood	do	2,990	2,500	.....	.....	.....	490
6	J. H. Cryer	do	1,700	1,600	.....	.....	.....	100
7	Frank Gilbride	do	1,800	1,720	.....	.....	.....	80
8	Fleming & Byrns	do	3,000	2,850	.....	.....	.....	150
9	John Telfer	do	510	510	.....	.....	.....	.....
10	Nelson Bros	do	1,500	1,440	.....	.....	.....	60
11	Tasdal & Anestad	do	470	440	.....	.....	.....	30
12	Mitchell Bros	do	1,590	1,400	.....	.....	.....	100
13	Corcoran Bros	do	2,200	1,650	.....	.....	.....	550
Totals			26,584	24,174	.....	.....	.....	2,410
Totals—25 mines			1,383,336	953,450	57,646	82,059	20,803	269,378

Mines in 1901, 23.

New mines, 3.

Abandoned mines, 1.

Mines in 1902, 25.

Grundy County—First District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$210,208	246	81	327	169,553	2,248	5,213	283	177,014	\$0 81	2,100	1	3
81,415	177	69	246	75,502	2,486	1,930	277	79,918	81	230	1	2
55,252	105	45	150	59,999	.....	1,560	273	61,559	81	515	.....	3
87,453	199	36	235	85,421	1,114	1,356	215	87,891	81	225	.....	4
115,103	216	46	262	105,418	3,018	3,597	263	112,033	81	245	1	11
34,859	84	27	111	34,446	27	1,104	278	35,577	81	160	1	2
276,514	410	104	514	260,630	5,379	7,529	261	273,538	81	3,000	.....	13
46,912	140	30	170	45,036	459	2,357	142	47,852	81	640	.....	8
186,890	350	100	450	174,437	2,314	3,000	223	179,751	81	2,000	.....	9
59,392	130	30	160	55,027	.....	5,000	290	60,027	81	4,000	.....	10
122,255	260	72	332	111,398	3,610	5,380	243	120,388	81	130	.....	11
122,551	255	42	297	118,004	.....	3,200	233	121,204	81	2,090	1	12
\$1,397,804	2,572	682	3,254	1,294,871	20,655	41,226	248	1,356,752	\$0 81	15,335	5	45
\$5,335	6	2	8	.....	2,500	.....	200	2,500	\$1 30	.....	.....	1
6,919	7	2	9	.....	3,075	.....	235	3,075	1 30	.....	.....	2
6,660	7	1	8	.....	3,225	300	250	3,525	1 30	.....	.....	3
3,592	4	1	5	.....	1,814	.....	250	1,814	1 30	.....	.....	4
6,015	6	1	7	.....	2,990	.....	260	2,990	1 50	.....	.....	5
3,680	4	1	5	.....	1,700	.....	214	1,700	1 30	.....	.....	6
3,950	5	1	6	.....	1,800	.....	206	1,800	1 30	.....	.....	7
6,562	8	2	10	.....	3,000	.....	225	3,000	1 30	.....	.....	8
1,326	3	1	4	.....	510	.....	215	510	1 30	.....	.....	9
3,300	4	1	5	.....	1,500	.....	240	1,500	1 30	.....	.....	10
1,086	4	1	5	.....	470	.....	130	470	1 30	.....	.....	11
3,800	4	.....	4	.....	1,500	.....	240	1,500	1 30	.....	.....	12
4,208	15	2	17	.....	2,200	.....	145	2,200	1 30	.....	.....	13
\$56,433	77	16	93	.....	26,284	300	216.2	26,594	.....	.....	.....	.....
\$1,454,237	2,649	698	3,347	1,294,871	46,939	41,526	.....	1,383,336	.....	15,335	5	45

Kankakee County—First District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
	SHIPPING MINE.							
1	Gardner-Wilmington Coal Co	Clark City....	51,901	37,639	2,030	.....	.....	12,232
	Totals—1 mine.....	.....	51,901	37,639	2,039	.....	.....	12,232

Mines in 1901, 2.

Abandoned mines, 1.

Mines in 1902, 1.

Kankakee County—First District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$62,718	100	100	200	41,076	3,117	7,708	227	51,399	\$0 81	.....	1	3
\$92,718	100	100	200	41,076	3,117	7,708	227	51,399	\$0 81	.....	1	3

LaSalle County—First District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Mrs. Emerson Hakes	Rutland	101,290	84,290	.....	.....	.....	17,000
2	James Cahill	Peru	75,100	64,500	.....	.....	.....	10,600
3	LaSalle Co. C. C. Co	LaSalle	172,100	139,282	.....	.....	.....	32,818
4	Illinois Zinc Co.	Peru	25,890	.....	25,890	.....	.....	.....
5	LaSalle Co. C. C. Co	LaSalle	167,223	86,727	52,048	.....	8,490	19,958
6	LaSalle Co. C. C. Co	do	138,324	76,972	7,033	28,349	.....	25,970
7	Standard Coal Co.	Seneca	3,500	2,700	.....	.....	.....	800
8	LaSalle Co. C. C. Co	LaSalle	172,124	141,008	.....	.....	.....	31,116
9	C. W. & V. Coal Co.	Streator	273,571	126,354	.....	.....	29,764	117,453
10	C. W. & V. Coal Co.	do	221,886	134,223	1,317	.....	.....	85,846
11	Oglesby Coal Co.	Oglesby	144,317	91,029	28,597	.....	8,499	16,192
12	Star Coal Co.	Streator	150,362	95,099	8,962	.....	8,061	38,241
13	Acme Coal Co.	do	132,250	74,849	.....	.....	8,918	48,483
Totals			1,777,438	1,117,033	123,847	28,349	63,732	444,477
LOCAL MINES.								
1	John Westerlund	Streator	1,000	800	.....	.....	.....	200
2	J. E. Buchanan	do	200	200	.....	.....	.....	.....
3	Alloway & Stevie	do	1,050	850	.....	.....	.....	200
4	William Thomas & Co.	do	3,026	2,245	.....	.....	.....	781
5	William Francis	do	9,000	6,000	2,000	.....	.....	1,000
6	Thos. Smith & Son	do	180	150	.....	.....	.....	30
7	Monts Bros	do	5,231	3,432	.....	.....	.....	1,849
8	Marseilles L. & W. P. Co.	Marseilles	13,317	2,731	10,276	.....	.....	310
9	John McNeil	Kangley	1,000	800	.....	.....	.....	200
10	Louis Evans	do	250	200	50	.....	.....	.....
11	Samuel Myers	do	220	200	.....	.....	.....	20
12	John Marshall	Lenore	750	500	.....	.....	.....	250
13	J. C. Dawson & Co.	Deer Park	125	100	.....	.....	.....	25
14	Haar Bros	Streator	1,500	1,250	.....	.....	.....	250
15	M. & H. Zinc Co.	LaSalle	77,378	.....	77,378	.....	.....	.....
16	James McCullough	Ottawa	430	400	.....	.....	20	10
17	Daniel Vazaine	do	275	225	.....	.....	.....	50
18	F. M. Fishburn	do	350	300	.....	.....	.....	50
19	T. B. Farrell	do	200	200	.....	.....	.....	.....
20	L. W. Brewer	do	400	325	.....	.....	.....	75
21	G. F. Myer	do	340	300	.....	.....	.....	40
22	William Saxby	do	800	700	.....	.....	.....	100
Totals			117,072	21,908	89,704	.....	20	5,440
Totals—35 mines			1,894,510	1,138,941	213,551	28,349	63,752	430,316

Mines in 1903, 35.

New mines, 3.

Abandoned mines, 3.

Mines in 1903, 35.

LaSalle County—First District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$118,417	172	53	225	96,090	5,200	.....	265	101,290	\$0 81	.....	1	1
107,395	135	44	179	43,000	30,100	2,000	286	75,100	76	.....	2	2
240,333	273	76	349	157,494	1,426	12,491	245	172,100	76	.....	3	3
32,362	35	24	62	135,298	18,783	13,142	236	167,223	76	.....	2	4
241,193	232	75	307	25,662	157	71	303	25,890	76	1,200	1	5
194,672	221	51	272	137,514	.....	810	261	138,324	76	.....	.....	6
6,605	14	4	18	400	3,100	.....	180	3,500	1 00	25	1	7
241,919	242	68	330	120,575	46,457	5,092	274	172,124	76	.....	.....	3
220,414	350	115	465	264,994	.....	5,089	237	273,571	58	5,450	1	3
188,006	320	116	436	205,762	6,086	9,538	239	221,386	58	3,000	3	3
197,424	255	83	338	134,449	3,129	6,739	257	144,317	76	5,600	.....	2
136,131	213	60	273	147,158	.....	3,205	257	150,363	58	.....	1	3
149,378	186	56	242	99,195	13,454	19,601	245	132,250	58	.....	1	13
\$2,074,249	2,651	845	3,496	1,571,768	127,892	77,778	253	1,777,438	\$0 68	15,275	7	25
\$ 1,740	3	.....	.....	.....	1,000	.....	240	1,000	\$0 60	10	.....	1
400	.....	.....	.....	.....	200	.....	180	200	60	3	.....	2
1,850	.....	.....	.....	.....	1,050	.....	230	1,050	58	9	.....	3
4,241	6	1	7	.....	3,026	.....	245	3,026	65	50	.....	4
15,600	8	4	12	.....	8,900	100	285	9,000	60	100	.....	5
318	3	1	4	.....	180	.....	30	180	58	.....	.....	6
7,789	12	1	13	.....	5,281	.....	300	5,281	67	40	.....	7
25,105	28	12	40	.....	13,317	.....	179	13,317	1 09	.....	.....	8
1,750	.....	1	3	.....	1,000	.....	270	1,000	58	15	.....	9
425	.....	1	3	.....	250	.....	60	250	58	20	.....	10
412	.....	.....	.....	.....	220	.....	120	220	58	6	.....	11
1,188	.....	1	3	.....	750	.....	200	750	75	.....	.....	12
213	.....	.....	.....	.....	125	.....	40	125	58	.....	.....	13
2,675	4	1	5	.....	1,500	.....	230	1,500	65	.....	.....	14
96,723	43	36	79	.....	4,141	72,307	272	77,378	40	2,662	.....	1
722	4	.....	4	.....	430	.....	100	430	1 10	15	.....	16
419	.....	.....	.....	.....	275	.....	110	275	1 10	10	.....	17
550	.....	.....	.....	.....	350	.....	125	350	1 10	12	.....	18
350	.....	.....	.....	.....	200	.....	160	200	1 10	7	.....	19
606	4	.....	4	.....	400	.....	150	400	1 10	16	.....	20
545	.....	.....	.....	.....	340	.....	175	340	1 10	14	.....	21
1,325	3	.....	3	.....	800	.....	210	800	1 10	16	.....	22
\$164,946	145	.....	205	.....	43,735	72,407	178	117,072	\$0 54	3,005	.....	2
\$3,239,195	2,796	905	3,701	1,571,768	171,627	150,185	206	1,894,510	.....	18,280	7	27

Livingston County—First District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Cardiff Coal Co., 1.....	Cardiff.....	203,473	79,760	60,245	2,320	14,771	46,377
2	Pontiac Coal Co., 1.....	Pontiac.....	47,420	14,880	26,588	.....	892	5,060
3	Walton Bros., 1.....	Fairbury.....	18,420	10,990	90	.....	1,920	2,840
4	A. M. Barackman.....	Streator.....	33,007	17,626	6,159	.....	.....	9,222
5	Alex. Anderson.....	do.....	2,401	1,501	231	.....	.....	669
Totals.....			304,721	124,757	93,313	2,320	17,583	64,168
LOCAL MINES.								
1	Streator Aqueduct Co.....	Streator.....	2,000	.....	2,000	.....	.....	.....
2	R. Evans, Jr. & Bros.....	do.....	1,440	1,080	.....	.....	.....	360
3	William McMillen.....	do.....	1,600	1,150	.....	.....	.....	450
4	Harry Wonders.....	do.....	1,600	1,350	.....	.....	.....	250
5	Evans Bros.....	do.....	9,836	6,339	97	.....	.....	3,400
6	Diamond Coal Co., 1.....	Pontiac.....	5,862	3,481	.....	.....	1,465	916
7	Co-operative Coal Co.....	Fairbury.....	11,341	4,860	.....	2,151	1,531	2,799
8	Streator Clay Mfg. Co.....	Streator.....	3,891	.....	9,891	.....	.....	.....
Totals.....			43,570	18,260	11,988	2,151	2,996	7,775
Totals—13 mines.....			348,291	143,017	105,301	4,471	20,579	74,932

Mines in 1901, 16.

Abandoned mines, 3.

Mines in 1902, 13.

* Miners working by the day; receive \$2.25.

Livingston County—First District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$228,835	180	76	256	182,409	4,626	4,393	253	201,717	\$0 58	4,880	1	....	1
62,235	94	42	136	12,045	14,861	3,541	291	47,420	81	1,714	....	3	2
25,068	22	11	33	9,400	5,090	3,930	277	18,420	58	1,131	....	3	3
38,205	60	21	81	154	1,932	750	214	33,007	58	60	....	4	4
2,950	6	1	7	2,028	300	73	275	2,401	58	35	....	5	5
<u>\$357,293</u>	<u>362</u>	<u>151</u>	<u>513</u>	<u>265,225</u>	<u>26,809</u>	<u>12,687</u>	<u>262</u>	<u>302,965</u>	<u>\$0 615</u>	<u>7,820</u>	<u>1</u>	<u>3</u>	
\$ 2,400	3	1	4	.....	.....	2,000	237	2,000	*	8	....	....	1
2,430	3	....	3	.....	1,440	.....	150	1,440	\$0 64	16	....	....	2
2,637	4	1	5	.....	1,600	.....	165	1,600	58	18	....	....	3
2,850	4	1	5	.....	1,600	.....	225	1,600	64	20	....	....	4
12,732	10	2	12	.....	9,654	132	300	9,836	64	125	....	....	5
8,372	9	8	17	.....	5,562	300	183	5,862	64	354	....	....	6
15,086	10	10	20	.....	8,542	2,799	215	11,341	60	513	1	....	7
12,364	12	5	17	.....	9,891	290	290	9,891	.....	30	....	....	8
<u>\$58,871</u>	<u>55</u>	<u>28</u>	<u>83</u>	<u>.....</u>	<u>38,289</u>	<u>5,281</u>	<u>220</u>	<u>43,570</u>	<u>\$0 62</u>	<u>1,084</u>	<u>1</u>	<u>....</u>	
<u>\$416,164</u>	<u>417</u>	<u>179</u>	<u>596</u>	<u>265,225</u>	<u>65,098</u>	<u>17,968</u>	<u>237</u>	<u>346,535</u>	<u>.....</u>	<u>8,904</u>	<u>2</u>	<u>3</u>	

Will County—First District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Murphy, Keenan & Co.....	Braidwood ...	44,616	28,637	393	.....	3,175	12,411
2	Reilly, Moffat & Co .....	..do	5,270	3,084	.....	.....	200	1,986
Totals			49,886	31,721	393	.....	3,375	14,397
LOCAL MINES.								
1	John O'Connor & Co.....	Braidwood ...	1,800	1,500	.....	.....	.....	300
Totals—3 mines.....			51,686	33,221	393	.....	3,375	14,697

Mines in 1901, 4.

New mines, 2.

Abandoned mines, 3.

Mines in 1902, 3.

Will County—First District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employés.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$51,283 7,715	102 45	28 8	130 53	35,441 4,262	7,715 990	1,460 18	260 63	44,616 5,270	\$0 81 81	..... .....	..... .....	..... .....	2 2
\$58,998	147	36	183	39,703	8,705	1,478	161.5	49,886	\$0 81	.....	.....	.....	2
\$3,975	6	2	8	.....	1,800	.....	140	1,800	\$0 95	.....	.....	.....	1
\$62,973	153	38	191	39,703	10,505	1,478	154	51,686	.....	.....	.....	.....	2

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy	12	1,356,752	929,276	57,646	82,059	20,803	258,388	8,580	\$1,397,804
Kankakee	1	51,901	37,639	2,030	.....	.....	12,232	.....	72,718
LaSalle	3	1,777,438	1,117,033	123,847	28,349	63,732	424,876	19,601	2,074,249
Livingston ...	5	304,721	124,757	93,313	2,320	17,583	64,168	2,580	357,293
Will	2	49,886	31,721	393	.....	3,375	14,397	.....	58,998
Totals and averages ..	33	3,540,698	2,240,426	277,229	112,728	105,493	774,061	30,761	\$3,961,062

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy	13	26,584	24,174	.....	.....	.....	2,410	.....	\$ 56,433
LaSalle	22	117,072	21,908	89,704	.....	20	5,440	.....	164,946
Livingston ...	8	43,570	18,260	11,988	2,151	2,996	4,278	3,897	58,871
Will	1	1,809	1,500	.....	.....	.....	300	.....	3,975
Totals and averages ..	44	189,026	65,842	101,692	2,151	3,016	12,428	3,897	284,225
Totals district—all mines .....	.....	3,729,724	2,306,268	378,921	114,879	108,509	786,489	34,658	\$4,245,287

Whole number of mines reported in 1901, 80.

Number of new mines opened during the year, 8.

Number of mines abandoned during the year, 11.

Whole number of mines reported for 1902, 77.

First District—1902—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TOTAL MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
2,572	682	3,254	1,294,871	.....	20,655	41,226	248.4	1,356,752	.....	\$0.81	.....	15,335	5	45
100	100	200	41,076	.....	3,117	7,708	227	51,339	502	0.81	\$0.74	.....	1	3
2,651	845	3,496	1,470,465	101,303	127,892	77,778	253	1,777,438	.....	0.684	.....	15,275	7	25
362	151	513	252,589	12,636	26,809	12,687	262	302,965	1,756	0.615	0.51	7,820	1	3
147	36	183	39,703	.....	8,705	1,478	161.5	49,886	.....	0.81	.....	.....	..	2
5,832	1,814	7,646	3,098,704	113,939	187,178	140,877	246.2	3,538,440	2,258	\$0.73	\$0.56	38,430	14	78

First District—1902—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TOTAL MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
77	16	93	.....	.....	26,284	300	216.2	26,584	.....	\$1.30	.....	.....	..	..
145	60	205	.....	930	43,735	72,407	177.8	117,072	.....	0.541	.....	3,005	..	2
55	28	83	.....	.....	38,289	5,281	220.6	43,570	.....	0.62	.....	1,084	1	..
6	2	8	.....	.....	1,800	.....	140	1,800	.....	0.95	.....	.....	..	..
283	106	389	.....	930	110,108	77,988	196	189,026	.....	0.67	.....	4,089	1	2
6,115	1,920	8,035	3,098,704	114,869	297,286	218,865	219	3,727,466	2,258	.....	.....	42,519	15	80

SECOND INSPECTION DISTRICT—1902.

NINETEENTH ANNUAL REPORT.

Counties—Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Stark, Warren.

THOMAS HUDSON, *Inspector*, Galva.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Ill.

SIR:—In accordance with section 12 of an act of the General Assembly of the State of Illinois, defining and setting forth the duties of the State Inspectors of coal mines, and providing for the better preservation of the health and safety of persons employed therein, I have the honor of herewith submitting to you the nineteenth annual report of the coal mines in the second inspection district, as now defined, comprising the coal producing counties of Bureau, Henry, Knox, Marshall, Mercer, Rock Island, Stark and Warren, for the year ended June 30, 1902.

The tabular statements accompanying this report contain the number of miners and other employés engaged in the coal mining industries of the district; the number of mines of both classes, shipping and local; the depth of the various shafts; the thickness and geological number of the different seams; the amount of powder consumed; the number of accidents, both fatal and non-fatal, that have taken place during the year; and the amount of coal of all grades that has been produced, with the prices paid for mining and selling prices of the coal.

In obtaining the average number of days worked in each county, the shipping mines only have been considered in the computation. Many of the local mines are closed down from March to September each year, others again keep coal out all the year, but the sales are so limited that no coal is produced for weeks at a time. The miners employed in the local mines find other employment during the summer months; it would be misleading therefore to include the local mines in computing the average number of days.

In computing the average price paid per ton for hand mining, those mines only have been considered where the scale prices and conditions agreed upon between the operators and miners prevail. While the miners at some of the

local mines are members of the miners' union, the conditions of the agreement are not in force; especially is this true in regard to miners being paid for lump coal only and wheeling the coal from the face; therefore, those mines have not been considered in obtaining the average mining price.

The following summary is presented for the year ended June 30, 1902:

Total number of mines.....	176
Number of shipping mines.....	21
Number of mines in local trade.....	155
Number of miners.....	4,874
Number of others under ground, including boys.....	1,176
Number employed above ground.....	533
Total number of employes.....	6,583
Number of kegs of powder consumed in blasting coal.....	36,483
Tons of lump coal produced.....	2,221,767
Tons of all other grades produced.....	882,749
Total product in tons.....	3,104,516
Tons of coal shipped.....	2,631,995
Tons sold to local trade.....	308,695
Tons consumed or wasted at the mines.....	110,014
Tons supplied to locomotives at mines.....	53,812
Average value of lump coal per ton at mine.....	\$1.489
Aggregate value of the total product.....	\$3,981,838
Average number of days of active operation (shipping mines).....	237.8
Average price per gross ton for hand mining.....	\$0.72
Number of fatal accidents.....	7
Number of non-fatal accidents.....	59
Total number of accidents.....	66
Number of employes to each fatal accident.....	1,005
Number of employes to each non-fatal accident.....	112
Tons of coal produced to each fatal accident.....	517,419
Tons of coal produced to each non-fatal accident.....	52,619
Tons of coal produced to each miner employed.....	637
Tons of coal produced to each employe (all classes).....	471
Number of steam boilers in use at mines.....	148
Number of mules and horses employed at mines.....	618
Ratio of fatal accidents per 1,000 persons employed.....	1.063

Comparative table, showing the output of the different counties, with increase or decrease in each, for the years ended June 30, 1901 and 1902:

COUNTIES.	TOTAL PRODUCT OF ALL GRADES OF COAL—IN TONS.		Increase.	Decrease.
	1901.	1902.		
Bureau.....	1,549,056	1,732,813	183,757	.....
Henry.....	83,535	113,697	30,162	.....
Knox.....	78,362	89,208	10,846	.....
Marshall.....	386,334	441,643	55,309	.....
Mercer.....	563,603	602,722	39,119	.....
Rock Island.....	63,399	84,100	20,701	.....
Stark.....	26,524	24,799	.....	1,725
Warren.....	19,600	15,534	.....	4,066
Totals.....	2,770,413	3,104,516	339,894	5,791
Increase in tons.....				339,894
Decrease in tons.....				5,791
Net increase in tons.....				334,103

The counties of Bureau, Henry, Knox, Marshall, Mercer and Rock Island combined show an increase over the year 1901 of 339,894 tons. The counties of Stark and Warren together show a decrease of 5,791 tons. This leaves a net gain for the district for this year over the previous of 334,103 tons.

New Mines.—Two mines of the shipping class have gone into operation during the year. The Kewanee Coal and Mining Co. of Kewanee, Henry county, completed the construction of a branch track from the C., B. & Q. to their mine, which gives the company shipping facilities, although at present the total product of the mine is consumed in the homes and factories of Kewanee.

The Atlas Coal Co. of Galva, Henry county, sunk a shaft during the summer of 1901, and made railroad connections with the C., R. I. & P. R. R.

Mines Abandoned.—One mine only of the shipping class has been abandoned during the year. The mine operated by the Sheffield Mining Co., at Sheffield, Bureau county, went out of action in May, 1902. This mine has been classed as a shipping mine, although no coal was loaded on cars for shipment, a large percentage of the coal being disposed of in coaling engines on the C., R. I. & P. R. R. The coal in this mine is not exhausted, but the distance from the face to the tippie was too far for mule haulage; besides an endeavor to enforce the gross weight conditions may have had something to do with the closing of the mine.

Fires at Shaft Buildings.—About 10 o'clock Saturday evening, November 9, 1901, the escape shaft at mine No. 1, operated by the Spring Valley Coal Co., Spring Valley, was discovered to be on fire, and before it could be gotten under control the shaft lining, stairway and engine room on the surface were destroyed.

The burning timbers falling down the shaft set fire to the timbers around the bottom, and for a time became quite threatening. By hard work, however, the bottom of the shaft was walled off with air-tight stoppings and the top of the shaft sealed over. The fire was thus confined to the interior of the shaft and around the bottom. The escape shaft was a neutral one, neither upcast nor downcast, and did not, therefore, interfere with the ventilation of the mine.

Shafts No. 1 and No. 2 of this company are connected underground, so that No. 1 still has an escapement, although the shafts are fully one mile apart, too far apart, in fact, for the safety of those employed in the mine in case they have to use the escapement as a means of exit from the mine.

A fire broke out in the tower of the shaft operated by the C. W. & V. Coal Co. at Seatonville, Bureau county, on the night of Dec. 22, 1901, which threatened for a time to destroy the whole top works of the mine. By prompt action, however, on the part of the local fire department, with a good fire pump and plenty of hose and water, the fire was gotten under control and the tower saved. The mine was idle one day in making temporary repairs. The fire probably started from a large torch that was left burning on the tower while the top men were engaged with other work on the ground landing.

Escapement Shafts.—The following escapement shafts, with depth thereof in feet, have been sunk during the year:

Operator.	Location of Mine.	Depth in feet.
Atlas Coal Co.....	Galva.....	64
Galva Coal Co.....	Wataga.....	60
Ab. Hodgett.....	Kewanee.....	30
D. L. Edwards.....	Coal Valley.....	16
W. F. Moore.....	Victoria.....	20
A. L. King.....	..do.....	25
George R. Watson.....	Wyoming.....	110
Ben Price.....	Kewanee.....	46
J. L. Jordon.....	Yates City.....	40
Willam Woodward.....	Soperville.....	22
G. W. Essex.....	*Soperville.....	85
John Willard.....	Roseville.....	30
J. G. Kidd.....	..do.....	15

*Extra escapement.

Prospective Mines.—Important changes have taken place in the ownership of some of the large mines in Bureau county. About the 1st of September, 1901, S. M. Dalzell, general manager of the Spring Valley Coal company, in connection with other capitalists, purchased the mine located at Ladd, Bureau county, formerly owned and operated by the Whitebreast Fuel company.

July 1, 1902, the mine heretofore operated by the C. W. & V. Coal company at Seatonville, Bureau county, passed, by purchase, into the hands of the Spring Valley Coal company, and will in the future be operated by this company.

These changes will, in all probability, very materially increase the output of coal in Bureau county. The Spring Valley Coal company will undoubtedly enlarge the Seatonville shaft, put in heavier hoisting machinery and larger cars, and thereby increase the capacity of the mine. At Ladd, every effort will be made to obtain a larger output. At the present writing a steel tower is being erected at this mine.

Stark county, which has not been able to boast of a shipping mine, nor an output to exceed 27,000 tons per annum, for the past 20 years, may, in all probability, show quite a respectable increase in 1903.

George R. Watson of Wyoming, Stark county, has had a branch connection made with his local mine and the C., B. & Q. R. R., and will do a shipping business, although a limited one, in the future.

The Wyoming Coal Co. has sunk a shaft north of Wyoming in Stark county, and are equipping it with good machinery and appliances. A branch road

about three-fourths of a mile in length will be built to connect the mine with the C., B. & Q. R. R., and coal will probably be ready for shipment in the fall and winter of 1902.

Both of these mines are sunk to seam No. 6 with its "clay-slips," "horse-backs" and other irregularities, therefore, a large output is not expected.

A party of capitalists have sunk a shaft between Elmwood and Yates City. The shaft is located in Knox county, on a line of the C., B. & Q. R. R. The shaft is 90 feet deep, seam No. 5. Coal will be ready for shipment, in limited quantities, in October or November, 1902. All together the indications point to an increase in the production of coal in the second inspection district.

Fatal Accidents.—The following is a statement in detail of the fatal accidents that have occurred in the second inspection district during the year ended June 30, 1902:

July 3, 1901—Abraham Randall, miner, aged 59 years, married, leaves a widow in Virginia (family grown), was killed instantly by a fall of roof at the face of his working place, in the Alden Coal Co.'s mine No. 2, located at Wanlock, Mercer county. Deceased had wedged down some top coal and was in the act of throwing it back from the face when a large slab of roof, or "false roof," about 12 feet long, 5 feet wide and not more than 6 inches thick at the thickest part, suddenly fell, crushing him. His partner testified that they had sounded the roof a short time previous to the accident, and considered it safe.

September 12, 1901—Peter Bonocchi, miner, aged 33 years, married, supposed to have a widow and three children in Italy, had his back broken by a fall of roof in the Illinois Third Vein Coal Co.'s mine, located at Ladd, Bureau county. He died from the injuries received 18 days after the accident. Deceased was opening up a closed part of the working face between two rooms. The roof seemed good, and he probably thought, as anyone might from the general appearance of the place, that it was quite safe. However, while at work a piece of roof about 4 feet long, 2 feet wide and 7 to 8 inches thick suddenly fell, with the result as stated.

October 18, 1901—John Nelson, miner, aged 42 years, married, leaves a widow and six children, had his head crushed by a fall of roof in his working place, while drawing pillars, in the Coal Valley Mining Co.'s shaft No. 1, located at Cable, Mercer county, and died from the result 21 hours after the accident. Deceased and his partner were drawing the main entry pillar in the mine. They had fired a blast which had dislodged two or three props. They replaced one of the props, and were loading some loose coal before setting the others, when a piece of the roof about 4 feet long, 2½ feet wide and 5 inches thick suddenly fell, striking deceased with above result.

December 23, 1901—James Ferarro, miner, aged 51 years, single, was killed instantly by a fall of roof at the face of his working place in shaft No. 1, operated by the Spring Valley Coal Co., located at Spring Valley, Bureau county. Deceased was at work in his room when a large mass of roof, about 9 feet in length, with an average width of 4 feet and about 16 inches thick, suddenly fell, crushing him underneath.

February 7, 1902—William Golden, a retired miner, 78 years of age, married, leaves a widow (family grown), had his leg broken by a fall of coal in a drift mine operated by his son, Richard Golden, located at Kewanee, Henry county, and died, probably from the injuries sustained, March 15, 36 days after the accident. Deceased was not an employé, he had retired some time previous, but he needed a load of coal for domestic purposes, and naturally thought he could be of some assistance to his son in mining it. They mined a fall of coal to a clay slip and cut the corners; while in the act of cleaning up the clay the coal suddenly fell off at the clay slips, a part of it rolled over, striking the old man and breaking his leg. This accident in itself, would not cause death in a younger man, but old age, coupled with physical infirmities was an important factor in the actual cause of his death.

March 31, 1902—Gus Yerley, driver, aged 19 years, single, was severely crushed about the head and back by being caught between the top of a loaded pit-car and the roof of the entry, in shaft No. 3, operated by the Spring Valley Coal Co., located at Spring Valley, Bureau county, and died from the injuries 30 hours after the accident. Deceased was employed as a driver in the above mine, he was drawing a loaded car from the face of a working place, and, as is the custom, riding on the front end of the car. The entry had an average height of about 5 feet, at certain points it was a little lower than this, and at others a little higher. It seems evident, that at one of the lower places on the entry, his head or shoulders or both were caught between the top of the car and the roof. He was dragged a distance of about 12 feet to a higher part of the entry where he was released and fell in front of the car where he was found. A post-mortem examination disclosed the fact that his spine was severely crushed.

April 3, 1902, Thomas H. Haigh, car trimmer, aged 26 years, leaves a widow, was severely crushed through the abdomen by being caught between two railroad cars at the Coal Valley Mining Company's shaft No. 2, located at Sherard, Mercer county, and died from the injuries received four hours after the accident. Deceased was employed as a car trimmer at the above mine. A car was standing on the scale being loaded, an empty car was standing about two feet from the former, ready to go on the scale when the loaded one was removed. Deceased went up the track and brought a string of five or six empty cars down the gradient to be ready to put on the scale at the proper time. He stopped the string of empty cars (or thought he had) and went towards the scale. He was in the act of passing between the car on the scale and the empty car when the string of cars behind, which had not been properly secured, broke away and struck the empty car, crushing deceased between the draw-bars of the loaded car and the empty car, with the above result.

Following are the regular and usual tables of fatal and non-fatal accidents, and the schedules for each county in the second inspection district.

Respectfully submitted,

THOMAS HUDSON,

State Inspector of Mines, Second District.

Galva, Illinois.

Fatal Casualties--Second District--July 1, 1902.

Date.	Name.	Age.	Occupation.	Residence (town.)	Married.	Widow.	Children.	Single.	Persons dependent.	Cause of Accident.
1901										
July 3	Abe Randall.....	59	Miner.....	Wanlock....	1	1	..	..	1	Falling roof.....
Sep. 12	Peter Bonocchi.....	33	..	Ladd.....	1	1	3	..	4	..
Oct. 18	John Nelson.....	42	..	Cable.....	1	1	5	..	6	..
Dec. 23	James Ferarro.....	51	..	Spr'g Valley ..	..	..	1	..	..	..
1902										
Feb. 7	William Golden.....	78	Miner (retired) ..	Kewanee ...	1	1	..	..	1	Falling coal.....
Mar. 31	Gus Yerley.....	19	Driver.....	Spr'g Valley ..	..	..	1	..	..	Pit cars.....
Apr. 3	Thos. H. Halgh.....	26	Car trim'er.	Sherrard....	1	1	..	..	1	Railroad cars
				Total-7.....	5	5	8	2	13	

Recapitulation of Fatal Accidents--Second District--1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Cable	1	Car trimmer..	1			Alden Coal Co.'s.....	1
Kewanee.....	1	Driver.....	1			Coal Valley Mining Co.'s.....	2
Ladd.....	1	Miners.....	5	Falling coal....	1	Golden's local mine.....	1
Sherrard.....	1			Falling roof....	4	Ill. Third Vein Coal Co.'s.....	1
Spring Valley	2			Pit cars.....	1	Spring Valley Coal Co.'s No. 1	1
Wanlock.....	1			Railroad cars..	1	Spring Valley Coal Co.'s No. 3	1
Totals.....	7		7		7		7

Non-Fatal Casualties—Second District—July 1, 1902.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury	Time lost—Days.
1901									
July 3	George Greer	42	Cable	1	....	4	5	Leg broken, falling roof	92
8	George Stacuis ...	50	Spr'g Vall'y ..	1	....	4	5	Body injured by falling cage.	73
8	Simon Buzis	54	Spr'g Vall'y ..	1	....	2	3	Body injured by falling cage.	210
8	Geo. Windsor	54	Spr'g Vall'y ..	1	....	2	3	Body injured by falling cage.	45
8	Luke Petroski	32	Spr'g Vall'y ..	....	1	....	....	Body injured by falling cage.	86
22	Oliver Oburg	38	Etherly .....	....	1	....	....	Back injured, falling roof	100
27	P. B. Stearnes	63	Spr'g Vall'y ..	1	....	9	10	Leg broken, falling roof	200
Aug. 1	Andrew Swatch ..	27	Toluca .....	....	1	....	....	Foot broken, falling coal	90
12	Wm. Abrzenski	33	Spr'g Vall'y ..	1	....	3	4	Foot injured, falling coal	37
16	Wm. Arnold	45	Sparland	1	....	6	7	Leg broken, falling coal	80
20	Ed. McCann	23	Bowlsburg .....	....	1	....	....	Foot injured, falling coal	30
24	Christian Diczue ..	26	Toluca	1	....	1	2	Foot broken, falling coal	60
28	Thos. Navin	41	Spr'g Vall'y ..	1	....	6	6	Toe cut off by cross bar	33
Sept. 14	Peter Liekis	40	Seatonville .....	....	1	....	....	Leg broken, falling coal	160
25	Ed. Plne	35	Gilchrist	1	....	1	2	Eye put out, flying coal	90
25	Jos. Levenduski ..	39	Spr'g Vall'y ..	1	....	2	3	Leg injured, falling roof	50
26	A. Rasedowski	37	Spr'g Vall'y ..	1	....	3	4	Toe broken, falling coal	60
26	Joseph Kelley	31	Spr'g Vall'y ..	1	....	....	1	Ankle crushed, falling coal	80
27	A. B. Wall	53	Spr'g Vall'y ..	1	....	6	6	Foot injured, falling coal	30
Oct. 2	Ramon Mardado ..	28	Ladd .....	....	1	....	....	Arm broken, kicked by mule.	60
3	Jas. Patterson	40	Spr'g Vall'y ..	1	....	5	6	Leg broken, falling coal	90
13	Wm. Zaleski	47	Spr'g Vall'y ..	1	....	5	6	Leg injured, falling coal	37
16	Jas. Mitchell	27	Toluca .....	....	1	....	....	Ankle broken by pit car	105
24	Howard Williams ..	22	Sherrard .....	....	1	....	....	Leg broken by pit car	78
24	Quinto Monte	41	Spr'g Vall'y ..	....	1	....	....	Leg broken, falling roof	84
30	Chas. Maynard	65	Gilchrist	1	....	2	3	Back injured by pit car	100
31	Joe Ghents	34	Spr'g Vall'y ..	1	....	1	2	Foot bruised, falling roof	50
Nov. 7	J. Brunner	50	Marquette	1	....	6	7	Thumb crushed, falling coal	30
14	Levi Thomas	28	Spr'g Vall'y ..	....	1	....	....	Leg broken by pit car	95
19	Anton Giacherlo ..	29	Spr'g Vall'y ..	1	....	1	....	Body burned premature blast	100
19	Joe Boyle	14	Spr'g Vall'y ..	....	1	....	....	Arm broken, kicked by mule.	33
19	Luke Simcock	70	Alexis	1	....	2	3	Body injured, ascending cage.	*
25	Adolph Bobniski ..	21	Toluca .....	....	1	....	....	Leg broken, falling coal	120
27	Rom. Bartolena ..	35	Ladd	1	....	5	6	Collar bone broken, falling coal	40
27	Al. Cheronowski ..	68	Spr'g Vall'y ..	1	....	7	8	Back injured, falling roof	100
Dec. 17	Peter Harrigan	19	Ladd .....	....	1	....	....	Jaw broken by pit car	50
1902									
Ernest Carlson ..	29	Spr'g Vall'y ..	1	....	2	3	3	Back bruised by pit car	35
Jan. 4	Wm. Gallier	44	Toluca	1	....	4	4	Foot broken, falling coal	60
11	Chas. A. Carlson ..	22	Sherrard .....	....	1	....	....	Leg broken by pit car	70
21	Philip Denelli	39	Spr'g Vall'y ..	1	....	3	4	Leg broken, falling roof	90
Feb. 4	Joe Reubens	45	Spr'g Vall'y ..	1	....	3	4	Leg broken by pit car	100
11	John Dowling	38	Toluca .....	....	1	....	....	Ankle injured, falling coal	30
28	Adam Uriff	18	Spr'g Vall'y ..	....	1	....	....	Leg broken, falling coal	90
Mar. 5	John Marcarlo	15	Spr'g Vall'y ..	....	1	....	....	Thigh broken by pit car	115
24	Wm. McGovern	45	Spr'g Vall'y ..	1	....	7	8	Collar bone broken by pit car	40
25	Fred Masters	39	Sherrard	1	....	3	4	Ankle crushed, falling roof	60
Apr. 3	Joe Mikaletta	25	Spr'g Vall'y ..	....	1	....	....	Fingers crushed by pit car	34
13	Pat. Daley	16	Spr'g Vall'y ..	....	1	....	....	Hip injured by pit car	45
21	Jas. Belleganty	25	Ladd	1	....	1	2	Hand crushed by pit car	42
26	Henry Smith	14	Spr'g Vall'y ..	1	....	8	9	Finger cut off, falling roof	30
26	J. Dufore	24	Marquette	1	....	....	1	Shoulder injured by pit car	30
29	Rafala Maschi	39	Toluca	1	....	2	3	Breast injured, fell into sump	30
May 1	Andw. Krafczok ..	42	Minonk	1	....	2	3	Back injured, falling roof	38
22	John Ryan	41	Toluca	1	....	5	6	Ribs broken by pit car	35
28	Adam Ziment	30	Spr'g Vall'y ..	1	....	1	2	Hand injured, falling coal	*
June 6	Clito Roda	39	Spr'g Vall'y ..	1	....	2	3	Knee fractured by pit car	*
9	Frank Siblotma	19	Spr'g Vall'y ..	....	1	....	....	Head cut by pit car	*
9	Ignace Bernardi ..	20	Toluca .....	....	1	....	....	Toe broken, falling coal	*
26	Anton Torricelli ..	21	Toluca .....	....	1	....	....	Nose broken, falling coal	*
	Totals			36	23	123	158		3752

* Not recovered July 1, 1902.

Recapitulation of Non-Fatal Accidents—Second District—1902.

Residence.	No.	Occupation.	No.	Nature of Casualty	No.	Colliery.	No.
Alexis	1	.....	.....	Cages	5	C. W. & V. Coal Co..	1
Bowlsburg... 1	1	Drivers	9	Coal flying from	.....	Coal Valley Min'g Co	4
Cable	1	Loaders	2	blast	1	Devlin Coal Co.....	10
Etherley	1	Miners	45	Falling coal	20	Empire Coal Co.	2
Gilchrist	2	Timbermen ..	1	Falling cross-bar ..	1	Etherley Coal Co	1
Ladd	4	Trappers	2	Falling roof.....	11	Ill 3d Vein Coal Co..	4
Marquette	2	.....	.....	Kicked by mule....	2	Marquette Coal Co... 4	4
Minonk	1	.....	.....	Pit cars	17	Robrs' local mine....	1
Seatonville ..	1	.....	.....	Premature blast ..	1	Silvis Mining Co.....	1
Sherrard	3	.....	.....	Pushed into sump..	1	Spr'g Valley Coal Co.	30
Sparland	1	.....	.....	.....	.....	Wenona Coal Co.....	1
Spring Vall'y	31	.....	.....	.....	.....	.....	.....
Toluca	10	.....	.....	.....	.....	.....	.....
Totals....	59	.....	59	.....	59	.....	59

Total men injured	59
Not recovered July 1, 1902.....	6
Number recovered July 1, 1902.....	53
Time lost by men recovered	3,752 days
Average time lost by men recovered.....	70.79

Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-jugal Relations and Time Lost.

NATURE OF INJURIES.	Number.	Married.	Single.	Dependent.	TIME LOST.		Per cent of Injuries.
					Total days.	Average days.	
Ankles broken	1	.....	1	.....	105	105	1.70
Ankles injured	3	2	1	5	170	56.7	5.05
Arms broken	2	.....	2	.....	93	46.5	3.39
Backs injured	5	4	1	17	373	74.6	8.48
Body burned	1	.....	1	.....	100	100	1.70
Bodies injured	5	4	1	14	414	82.8	8.49
Breast injured	1	1	.....	3	30	30	1.70
Collar bone broken	2	2	.....	14	60	40	3.39
Eye knocked out	1	1	.....	2	90	90	1.70
Fingers cut off	1	1	.....	9	30	30	1.70
Fingers injured.....	1	.....	1	.....	34	34	1.70
Foot broken	3	2	1	6	210	70	5.05
Foot injured	4	3	1	12	147	36.8	6.78
Hands injured	2	2	.....	4	42	21	3.39
Head injured	1	.....	1	.....	.....	.....	1.70
Hips injured	1	.....	1	.....	45	45	1.70
Jaw broken	1	.....	1	.....	50	50	1.70
Knee fractured	1	1	.....	3	.....	.....	1.70
Legs broken	13	6	7	36	1,349	103.8	22.00
Legs injured	2	2	.....	9	87	43.5	3.39
Nose broken	1	.....	1	.....	.....	.....	1.70
Ribs broken	1	1	.....	6	35	35	1.70
Shoulder injured	1	1	.....	1	30	30	1.70
Thigh broken	1	.....	1	.....	115	115	1.70
Thumb injured	1	1	.....	7	30	30	1.70
Toes broken	2	1	1	4	60	30	3.39
Toe cut off.....	1	1	.....	6	33	33	1.70
Totals, averages and percentages	59	36	23	158	3,752	70.8	100.00

Bureau County—Second District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Spring Valley Coal Co., 1....	Spring Valley	329,359	249,031	14,456	.....	9,880	55,992
2	Spring Valley Coal Co., 2....	do	319,450	245,188	12,966	.....	6,129	55,167
3	Spring Valley Coal Co., 3....	do	289,868	229,932	2,441	.....	8,624	48,871
4	Spring Valley Coal Co., 5....	do	128,700	95,851	898	.....	6,241	25,710
5	Marquette 3d Vein Coal Co., 1	Marquette	250,342	156,111	54,459	10,057	.....	29,715
6	Illinois 3d Vein Coal Co., B..	Ladd	206,978	156,246	7,776	.....	.....	42,956
7	C. W. & V. Coal Co., 1.....	Seatonville...	173,647	125,909	275	10,533	1,529	35,401
8	Sheffield Mining Co.....	Sheffield.....	13,405	13,405	.....	.....	.....	.....
Totals			1,711,749	1,271,673	93,271	20,590	32,403	293,812
LOCAL MINES.								
1	Matt. Duncan	Sheffield	2,440	2,820	120	.....	.....	.....
2	Wm. Masters & Son	do	1,930	1,875	.....	.....	.....	55
3	John V. Duncan	do	1,031	1,031	.....	.....	.....	.....
4	George Heathcock	Princeton	2,730	2,730	.....	.....	.....	.....
5	Wm. Smith & Son	do	1,946	1,946	.....	.....	.....	.....
6	A. W. Walton	do	1,420	1,420	.....	.....	.....	.....
7	Thos. Herrington	do	904	904	.....	.....	.....	.....
8	Wm. Brandt	Mineral	7,738	7,638	.....	.....	.....	.....
9	Hallen & Mahar	Tiskilwa	475	300	175	.....	.....	.....
10	C. W. Riley	Neponset	450	425	.....	.....	.....	25
Totals			21,064	20,589	295	.....	.....	180
Totals—18 mines.....			1,732,813	1,292,262	93,566	20,590	32,403	293,992

Mines in 1901, 20.

New mines, 0.

Abandoned mines, 2.

Mines in 1902, 18.

Bureau County—Second District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	Number.
\$422,294	540	188	728	305,040	13,968	10,351	261	329,359	\$0 76	.....	1	....	1
412,910	545	188	751	308,516	.....	10,934	254	319,450	76	.....	1	....	2
374,701	500	150	650	283,372	.....	6,496	260	289,868	76	.....	1	13	3
162,118	180	48	228	123,876	.....	3,926	302	128,700	76	50	.....	8	4
340,698	378	130	508	239,488	2,908	7,951	256	250,342	76	.....	.....	3	5
267,944	360	108	468	191,842	3,340	11,796	258	206,978	76	.....	1	4	6
212,153	261	116	377	161,661	2,656	9,330	244	173,647	76	.....	.....	1	7
23,458	40	12	52	6,273	7,132	.....	250	13,405	87½	6	.....	.....	8
\$2,216,276	2,804	958	3,762	1,620,063	30,902	60,784	261	1,711,749	\$0 76	56	8	38	
\$ 4,240	7	1	8	2,440	.....	225	2,440	\$0 87½	.....	.....	.....	.....	1
2,839	8	1	9	1,905	.....	25	140	1,930	87½	.....	.....	.....	2
1,804	2	1	3	1,031	.....	260	260	1,031	87½	.....	.....	.....	3
5,460	6	1	7	2,730	.....	200	200	2,730	80	100	.....	.....	4
3,892	6	1	7	1,946	.....	200	200	1,946	1 00	75	.....	.....	5
2,840	4	1	5	1,420	.....	230	230	1,420	1 00	60	.....	.....	6
1,808	4	1	5	904	.....	180	180	904	1 00	50	.....	.....	7
11,507	10	2	12	7,638	.....	100	240	7,738	75	.....	.....	.....	8
743	2	1	4	475	.....	80	80	475	1 00	6	.....	.....	9
650	2	1	3	425	.....	25	120	450	87½	.....	.....	.....	10
\$35,783	52	11	63	20,914	150	187.5	21,064	\$0 84.4	291	.....	.....	.....
\$2,252,059	2,856	969	3,825	1,620,063	51,816	60,934	260.6	1,732,813	.....	347	3	38	

Henry County—Second District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Kewanee Coal & Min. Co., 1.	Kewanee	34,651	24,729	.....	.....	.....	9,922
2	Atlas Coal Co., 1.	Galva	9,890	9,450	.....	.....	200	240
Totals			44,541	34,179	.....	.....	200	10,162
LOCAL MINES.								
1	Kewanee Min. & Mfg. Co....	Kewanee	10,928	7,429	.....	.....	.....	3,499
2	Philip Henry.....	do	9,550	6,200	.....	.....	3,300	50
3	J. J. Fleming	do	8,165	7,840	.....	.....	.....	325
4	Bates Bros.....	do	3,200	3,000	.....	.....	.....	200
5	Henry Kempin	do	1,680	1,680	.....	.....	.....	.....
6	Benjamin Price.....	do	1,135	1,135	.....	.....	.....	.....
7	Matthew Atkinson	do	1,110	1,110	.....	.....	.....	.....
8	Max Groy	do	943	943	.....	.....	.....	.....
9	Joseph Dixon	do	756	756	.....	.....	.....	.....
10	Absalom Hodgett.....	do	750	750	.....	.....	.....	.....
11	Edwin Lamb.....	do	542	542	.....	.....	.....	.....
12	Ralph Todd.....	do	408	408	.....	.....	.....	.....
13	Thos. Martin.....	do	300	300	.....	.....	.....	.....
14	Kenneth Murchison	do	360	360	.....	.....	.....	.....
15	Ted Carter.....	do	250	250	.....	.....	.....	.....
16	Thos. Carter & Son	do	245	245	.....	.....	.....	.....
17	Richard Golden.....	do	120	120	.....	.....	.....	.....
18	P. Meloen & Son	do	876	776	.....	.....	.....	100
19	Herdien Coal Co.....	Galva	11,365	11,040	.....	.....	.....	325
20	James H. Murray	do	2,100	1,900	.....	.....	.....	200
21	E. B. Kay	Atkinson	2,400	2,200	.....	.....	.....	200
22	Elery Riley	do	1,883	1,783	.....	.....	.....	100
23	James Wayne	do	994	894	.....	.....	.....	100
24	John Mowbray	do	500	500	.....	.....	.....	.....
25	Jeff Glenn	Briar Bluff	1,120	1,120	.....	.....	.....	.....
26	Robert Kay	do	800	800	.....	.....	.....	.....
27	James Kershaw	do	668	668	.....	.....	.....	.....
28	W. W. Posten	do	666	666	.....	.....	.....	.....
29	Maurice Cadigan	do	150	150	.....	.....	.....	.....
30	Fred Kenady	Cambridge	2,847	1,800	547	.....	.....	500
31	James Irvin	Green River	720	720	.....	.....	.....	.....
32	M. M. Aldrich	Geneseo	1,125	938	.....	.....	.....	187
33	John Summerson	Coal Valley	500	500	.....	.....	.....	.....
Totals			69,156	59,523	547	.....	3,300	5,686
Totals—35 mines.....			113,697	93,702	547	.....	3,500	15,948

Henry County—Second District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$46,023	55	15	70	30,751	3,400	500	243	34,651	\$0 65	.....	.....	.....	1
14,385	25	4	29	8,027	1,563	360	200	9,890	85	.....	.....	.....	2
\$60,408	80	19	99	38,778	4,963	800	221.5	44,541	\$0 65	.....	.....	.....
\$17,366	18	8	26	.....	10,628	300	273	10,928	\$0 65	.....	.....	.....	1
15,830	11	4	15	.....	9,300	250	225	9,550	65	.....	.....	.....	2
14,781	12	1	13	.....	7,810	325	220	8,165	1 12 ¹ / ₂	.....	.....	.....	3
5,725	7	1	8	.....	3,100	100	200	3,200	1 12 ¹ / ₂	.....	.....	.....	4
3,150	6	1	7	.....	1,680	.....	140	1,680	1 12 ¹ / ₂	.....	.....	.....	5
2,099	6	1	7	.....	1,135	.....	90	1,135	1 12 ¹ / ₂	.....	.....	.....	6
2,081	4	1	5	.....	1,110	.....	200	1,110	1 12 ¹ / ₂	.....	.....	.....	7
1,650	3	1	4	.....	943	.....	160	943	1 12 ¹ / ₂	.....	.....	.....	8
1,323	3	.....	3	.....	756	.....	160	756	1 12 ¹ / ₂	.....	.....	.....	9
1,312	3	1	4	.....	750	.....	150	750	1 12 ¹ / ₂	.....	.....	.....	10
948	2	1	3	.....	542	.....	120	542	1 12 ¹ / ₂	.....	.....	.....	11
714	2	.....	2	.....	408	.....	105	408	1 12 ¹ / ₂	.....	.....	.....	12
562	2	1	3	.....	300	.....	81	300	1 12 ¹ / ₂	.....	.....	.....	13
630	2	.....	2	.....	360	.....	100	360	1 12 ¹ / ₂	.....	.....	.....	14
437	2	.....	2	.....	250	.....	100	250	1 12 ¹ / ₂	.....	.....	.....	15
428	2	1	3	.....	245	.....	110	245	1 12 ¹ / ₂	.....	.....	.....	16
210	1	.....	1	.....	120	.....	100	120	1 12 ¹ / ₂	.....	1	.....	17
1,408	3	1	4	.....	878	.....	140	878	1 12 ¹ / ₂	.....	.....	.....	18
18,297	26	3	29	.....	11,040	325	225	11,365	1 00	.....	.....	.....	19
3,900	8	2	10	.....	1,900	.....	140	2,100	1 00	.....	.....	.....	20
4,500	5	1	6	.....	2,250	150	280	2,400	1 25	.....	.....	.....	21
3,666	5	1	6	.....	1,833	50	240	1,883	1 25	.....	.....	.....	22
1,888	4	1	5	.....	944	50	200	994	1 25	.....	.....	.....	23
1,000	3	1	4	.....	500	.....	180	500	1 25	.....	.....	.....	24
1,960	4	1	5	.....	1,120	.....	200	1,120	1 00	.....	.....	.....	25
1,200	3	.....	3	.....	800	.....	180	800	1 00	.....	.....	.....	26
1,002	3	.....	3	.....	668	.....	180	668	1 00	.....	.....	.....	27
999	3	.....	3	.....	666	.....	170	666	1 00	.....	.....	.....	28
225	1	.....	1	.....	150	.....	150	150	1 00	.....	.....	.....	29
4,670	8	2	10	.....	2,547	300	240	2,847	80	135	.....	.....	30
1,260	2	.....	2	.....	720	.....	140	720	1 25	.....	.....	.....	31
1,969	4	1	5	.....	1,075	50	200	1,125	87 ¹ / ₂	.....	.....	.....	32
875	3	.....	3	.....	500	.....	120	500	87 ¹ / ₂	.....	.....	.....	33
\$118,065	171	37	208	.....	67,056	2,100	167	69,156	\$ 94.7	218	1	.....
\$178,473	251	56	307	38,778	72,019	2,900	.....	113,697	.....	218	1	.....

Mines in 1901, 34.

New mines, 7.

Abandoned mines, 6.

Mines in 1902, 35.

Knox County—Second District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Etherley Coal Co. 2	Etherley	36,902	18,812	6,502			11,588
LOCAL MINES.								
1	John Magnuson	Etherley	960	960				
2	Al. Cook	do	400	400				
3	Ed. Peterson	do	140	140				
4	Reed & Pendergast	Galesburg	6,170	5,920				250
5	Geo. W. Essex	do	3,906	3,726				180
6	William Woodward	do	1,456	1,456				
7	John J. Murphy	do	620	620				
8	Galva Coal Co	Wataga	3,600	3,400				200
9	Rodell & Mitchell	do	2,728	2,228				500
10	Otto Isaacson	do	2,552	2,552				
11	Chas. Simpson	do	2,092	2,092				
12	Louis Nodene & Son	do	1,558	1,558				
13	Hamilton Taylor	do	1,400	1,400				
14	Claus Bengston	do	1,200	1,200				
15	N. A. Anderson	do	265	265				
16	George Clifford	Oneida	3,406	3,406				
17	S. D. McGovern	do	1,712	1,712				
18	Terence McGovern	do	1,100	1,100				
19	Chas. Morgan	do	600	600				
20	Isam Dalton	Yates City	3,350	2,450				900
21	Bowman Bros	do	1,434	934				500
22	N. C. Anderson	Knoxville	1,500	1,500				
23	James Nelson	do	400	400				
24	John L. Jordon	Farmington	800	640				160
25	Wm. M. Welker	do	460	460				
26	H. E. Bonney	Abingdon	2,337	1,794				543
27	John Walsh	Truro	1,744	1,744				
28	Louis Peckenpaugh	Soperville	540	500				40
29	L. Lopeman	Middle Grove	526	526				
30	W. F. Moore	Victoria	1,400	1,400				
31	John Todd	do	910	910				
32	Herkstrom & Charnock	do	640	640				
33	A. L. King	do	280	280				
34	William Fish	do	120	120				
Totals			52,306	49,033				3,273
Totals—35 mines			89,208	67,845	6,502			14,861

Mines in 1901, 39.

New mines, 5.

Abandoned mines, 9.

Mines in 1902, 35.

Knox County—Second District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$39,826	65	12	77	36,902	.....	.....	280	36,902	\$0 65	.....	1	1
\$ 1,440	3	...	3	...	960	...	140	960	\$0 87 ¹ / ₂	...	...	1
600	2	...	2	...	400	...	120	400	87 ¹ / ₂	...	...	2
210	1	...	1	...	140	...	100	140	87 ¹ / ₂	...	...	4
- 10,485	14	2	16	...	5,970	200	240	6,170	1 00	130	...	4
6,144	10	2	12	...	3,726	180	200	3,906	1 00	150	...	5
2,366	5	1	6	...	1,456	...	140	1,456	1 00	...	...	6
1,085	3	...	3	...	620	...	125	620	1 00	...	...	7
5,200	12	2	14	...	3,400	200	160	3,600	87 ¹ / ₂	...	...	8
3,592	7	1	8	...	2,548	180	200	2,728	87 ¹ / ₂	...	...	9
3,828	6	1	7	...	2,552	...	220	2,552	87 ¹ / ₂	...	...	10
3,138	5	1	6	...	2,092	...	200	2,092	87 ¹ / ₂	...	...	11
2,337	3	1	4	...	1,558	...	216	1,558	87 ¹ / ₂	...	...	12
2,100	5	1	6	...	1,400	...	160	1,400	87 ¹ / ₂	...	...	13
1,800	3	1	4	...	1,200	...	200	1,200	87 ¹ / ₂	...	...	14
397	2	...	2	...	265	...	90	265	87 ¹ / ₂	...	...	15
5,960	10	1	11	...	3,406	...	200	3,406	87 ¹ / ₂	...	...	16
2,568	4	1	5	...	1,712	...	225	1,712	87 ¹ / ₂	...	...	17
1,650	3	1	4	...	1,100	...	200	1,100	87 ¹ / ₂	...	...	18
900	3	...	3	...	600	...	130	600	87 ¹ / ₂	...	...	19
4,125	4	1	5	...	3,150	200	200	3,350	75	...	...	20
1,651	4	1	5	...	1,234	200	140	1,434	75	...	...	21
2,625	6	...	6	...	1,600	...	150	1,500	1 12 ¹ / ₂	...	...	22
700	2	1	3	...	400	...	140	400	1 12 ¹ / ₂	...	...	23
1,040	2	1	3	...	800	...	160	800	75	...	...	24
690	2	...	2	...	460	...	140	460	75	...	...	25
3,859	7	...	7	...	2,337	...	150	2,337	1 25	...	...	26
2,180	4	1	5	...	2,744	...	250	1,744	75	...	...	27
770	4	1	5	...	500	40	50	540	80	20	...	28
657	2	...	2	...	526	...	100	526	75	33	...	29
1,750	3	1	4	...	1,400	...	240	1,400	75	...	...	30
1,365	2	...	2	...	910	...	200	910	87 ¹ / ₂	...	...	31
800	2	...	2	...	640	...	160	640	75	...	...	32
420	2	...	2	...	280	...	100	280	87 ¹ / ₂	...	...	33
150	1	...	1	...	120	...	80	120	75	...	...	34
78,582	151	23	174	.....	51,106	1,200	162	52,306	\$0 73.7	333	.....	.....
\$118,408	216	35	251	36,902	51,106	1,200	.....	89,208	.....	333	.....	1

Marshall County—Second District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Devlin Coal Co., 1.....	Toluca	288,287	177,359	66,589	.....	.....	44,339
2	Devlin Coal Co., 2*.....	do	26,285	18,400	.....	.....	.....	7,885
3	Wenona Coal Co., 1	Wenona	112,932	86,311	.....	.....	5,370	21,251
4	Marquette 3d Vein Coal Co., 1	Sparland	9,687	7,009	1,396	.....	.....	1,282
Totals			437,191	289,079	67,985	.....	5,370	74,757
LOCAL MINES.								
1	Ianthus Newell	Sparland	880	880	.....	.....	.....	.....
2	Travis Davison.....	do	480	480	.....	.....	.....	.....
3	Nighswonger Bros	do	360	360	.....	.....	.....	.....
4	R. G. Ingram	do	320	320	.....	.....	.....	.....
5	E. O. Frisbey	do	288	288	.....	.....	.....	.....
6	George Kear	do	224	224	.....	.....	.....	.....
7	George Christman	do	180	180	.....	.....	.....	.....
8	Bernard Lanning	do	120	120	.....	.....	.....	.....
9	James Medearis	Henry	580	580	.....	.....	.....	.....
10	William Bough	do	360	360	.....	.....	.....	.....
11	Wm. Horrocks	do	340	340	.....	.....	.....	.....
12	Wm. Lopeman	do	180	180	.....	.....	.....	.....
13	Joseph Caley	do	140	140	.....	.....	.....	.....
Totals			4,452	4,452	.....	.....	.....	.....
Totals—17 mines			441,643	293,531	67,985	.....	5,370	74,757

Mines in 1901, 18.

New mines, 2.

Abandoned mines, 3.

Mines in 1902, 17.

*Middle vein.

Marshall County—Second District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$346,832	413	116	529	275,763	4,486	8,038	280	284,244	\$0 76	.....	9	1	1
29,071	75	25	100	25,160	.....	1,125	113	26,285	58	1,193	.....	1	2
165,246	170	70	240	102,148	7,405	4,376	264	112,932	76	25	.....	1	3
17,015	16	13	29	4,853	4,240	594	275	9,687	76	.....	.....	1	4
<u>\$558,164</u>	<u>674</u>	<u>224</u>	<u>898</u>	<u>407,924</u>	<u>16,134</u>	<u>13,133</u>	<u>233</u>	<u>433,148</u>	<u>\$0 75</u>	<u>1,218</u>	<u>.....</u>	<u>12</u>	
\$1,100	3	.....	3	.....	880	.....	150	880	\$0 80	38	.....	.....	1
600	3	.....	3	.....	480	.....	160	480	80	17	.....	.....	2
450	3	.....	3	.....	360	.....	70	360	80	20	.....	.....	3
400	3	.....	3	.....	320	.....	120	320	80	14	.....	.....	4
360	3	.....	3	.....	288	.....	100	288	80	12	.....	.....	5
280	3	.....	3	.....	224	.....	70	224	80	.....	.....	.....	6
225	3	.....	3	.....	180	.....	90	180	80	5	.....	.....	7
150	3	.....	3	.....	120	.....	120	120	80	4	.....	.....	8
870	3	.....	3	.....	550	.....	150	550	1 00	22	.....	.....	9
450	3	.....	3	.....	360	.....	120	360	1 00	12	.....	.....	10
510	3	.....	3	.....	340	.....	120	340	1 00	10	.....	.....	11
270	1	.....	1	.....	180	.....	100	180	1 00	8	.....	.....	12
315	1	.....	1	.....	140	.....	100	140	1 25	.....	.....	.....	13
<u>\$5,980</u>	<u>26</u>	<u>.....</u>	<u>26</u>	<u>.....</u>	<u>4,452</u>	<u>.....</u>	<u>113</u>	<u>4,452</u>	<u>\$0 88</u>	<u>162</u>	<u>.....</u>	<u>.....</u>	
<u>\$564,144</u>	<u>700</u>	<u>224</u>	<u>924</u>	<u>407,924</u>	<u>20,586</u>	<u>13,133</u>	<u>.....</u>	<u>437,600</u>	<u>.....</u>	<u>1,380</u>	<u>.....</u>	<u>12</u>	

Mercer County—Second District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Coal Valley Mining Co., 2....	Sherrard.....	152,660	89,120	8,118	.....	3,612	51,810
2	Empire Coal Co., 3	Gilchrist	202,898	119,640	.....	.....	4,254	79,004
3	Coal Valley Mining Co., 1....	Cable	69,222	46,915	428	.....	3,198	18,681
4	Alden Coal Co., 2.....	Wanlock	144,763	82,427	480	.....	22,904	38,957
5	B. B. Peterson.....	Cable	4,016	3,866	.....	.....	.....	150
6	Arthur Jones.....	Viola.....	2,944	2,744	.....	.....	.....	200
7	Lilliman & Co.....	do.....	4,000	3,500	.....	.....	.....	500
8	Dockerty Bros	Préemption....	3,800	3,500	.....	.....	.....	300
Totals			584,308	351,712	9,026	.....	33,968	189,602
LOCAL MINES.								
1	William Penman	Préemption ..	2,000	2,000	.....	.....	.....	.....
2	M. A. Beers & Son	Cable	1,276	950	.....	.....	276	50
3	Edward Boden	Préemption ..	1,688	1,488	.....	.....	.....	200
4	Joseph Williams	do	500	500	.....	.....	.....	.....
5	G. W. Martin	Laoc	3,000	3,000	.....	.....	.....	.....
6	J. B. Martin	do	2,520	2,520	.....	.....	.....	.....
7	W. P. Williams.....	do	1,200	1,150	.....	.....	.....	50
8	U. S. Clay Mfg. Co	Griffin	4,710	4,170	.....	.....	.....	.....
9	Frank Campbell.....	Viola	1,520	1,400	.....	.....	.....	120
Totals			18,414	17,718	.....	.....	276	420
Totals—17 mines.....			602,722	369,430	9,026	.....	34,244	190,022
Averages .....			.....	.....	.....	.....	.....	.....

Mines in 1901, 18.

New mines, 1.

Abandoned mines, 2.

Mines in 1902, 17.

* Product of this mine all used at mine burning brick and tile.

Mercer County—Second District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$166,934	148	121	267	145,156	2,456	5,048	224	152,660	\$0 60	6,634	1	3	1
229,843	177	80	257	193,945	2,104	6,849	261	202,898	60	10,890	...	2	2
80,039	54	46	100	6,5112	320	3,790	248	69,222	60	2,136	1	1	2
162,525	143	89	232	135,602	1,862	7,300	253	144,768	60	8,873	1	...	2
5,851	6	2	8	1,800	2,132	84	200	4,016	90	112	...	...	5
4,216	5	1	6	240	2,579	125	200	2,944	92	110	...	...	6
5,550	10	4	14	3,225	550	225	180	4,000	75	150	...	...	7
5,400	9	1	10	600	3,050	150	160	3,800	87½	190	...	...	8
<u>\$660,358</u>	<u>550</u>	<u>227</u>	<u>894</u>	<u>545,654</u>	<u>15,053</u>	<u>23,571</u>	<u>216</u>	<u>584,308</u>	<u>\$0 60</u>	<u>29,085</u>	<u>3</u>	<u>6</u>	
3,000	4	3	7	.....	2,000	.....	100	2,000	88½	160	.....	.....	1
2,151	3	1	4	.....	1,276	.....	200	1,276	1 00	14	.....	.....	2
2,332	4	1	5	.....	1,488	200	160	1,688	87½	82	.....	.....	3
750	4	...	4	.....	500	.....	50	500	87½	20	.....	.....	4
4,500	5	1	6	.....	3,000	.....	150	3,000	75	150	.....	.....	5
3,780	4	1	5	.....	2,520	.....	230	2,520	87½	140	.....	.....	6
1,750	3	1	4	.....	1,150	50	160	1,200	87½	95	.....	.....	7
5,416	8	2	10	.....	.....	*4,710	280	4,710	80	250	.....	.....	8
2,160	5	1	6	.....	1,400	120	140	1,520	1 00	14	.....	.....	9
<u>25,839</u>	<u>40</u>	<u>11</u>	<u>51</u>	<u>.....</u>	<u>13,334</u>	<u>5,080</u>	<u>163</u>	<u>18,414</u>	<u>\$0 85</u>	<u>955</u>	<u>.....</u>	<u>.....</u>	
<u>\$686,197</u>	<u>590</u>	<u>355</u>	<u>945</u>	<u>545,684</u>	<u>28,387</u>	<u>28,651</u>	<u>.....</u>	<u>602,722</u>	<u>.....</u>	<u>30,040</u>	<u>3</u>	<u>6</u>	
.....	.....	.....	.....	.....	.....	.....	215.8	.....	\$0 60	.....	.....	.....

Rock Island County—Second District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Black Diamond Coal Co.....	Coal Valley...	3,278	2,820	.....	.....	.....	458
2	Silvis Mining Co., 2	Carbon Cliff..	34,620	26,473	.....	.....	.....	8,147
Totals			37,898	29,293	.....	.....	.....	8,605
LOCAL MINES.								
1	Stone Bros.....	Carbon Cliff..	1,800	1,800	.....	.....	.....	.....
2	Groth Bros.....	do	206	206	.....	.....	.....	.....
3	John J. Pryce & Son.....	Coal Valley...	19,266	14,453	.....	.....	.....	4,816
4	Sackville Bros.....	do	11,000	8,425	.....	.....	.....	2,575
5	Stoddard & Summerson.....	do	1,060	1,060	.....	.....	.....	.....
6	Z. H. Wynne.....	do	1,020	1,020	.....	.....	.....	.....
7	Wm. Wooley.....	do	222	222	.....	.....	.....	.....
8	D. L. Edwards.....	do	200	200	.....	.....	.....	.....
9	John Hynd.....	Loding.....	3,822	3,722	.....	.....	.....	100
10	Loding Bros.....	do	2,522	2,012	.....	.....	.....	500
11	Jamieson & Allison.....	do	604	604	.....	.....	.....	.....
12	Guckert Bros.....	Hampton	420	420	.....	.....	.....	.....
13	Fred Vonach.....	do	350	350	.....	.....	.....	.....
14	William Parlier.....	Milan	3,720	3,000	.....	.....	.....	720
Totals			46,202	37,491	.....	.....	.....	8,711
Totals—16 mines.....			84,100	66,784	.....	.....	.....	17,316
Averages.....			.....	.....	.....	.....	.....	.....

Mines in 1901, 18.

New mines, 2.

Abandoned mines, 4.

Mines in 1902, 16.

Rock Island County—Second District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
4,741	5	1	6	2,442	536	300	230	3,278	\$0 80	35	.....	.....	1
45,820	36	17	53	34,014	306	300	250	34,620	*61	1,316	.....	.....	2
50,561	41	18	59	36,456	842	600	240	37,898	\$0 65	1,351	.....	.....	1
3,150	5	1	6	.....	1,800	.....	175	1,800	\$1 00	40	.....	.....	1
360	2	.....	2	.....	206	.....	70	206	1 00	6	.....	.....	2
25,046	22	11	33	.....	18,966	300	200	19,266	*64	800	.....	.....	3
15,609	18	4	22	.....	10,754	246	235	11,000	80	525	.....	.....	4
1,855	5	1	6	.....	1,060	.....	125	1,060	1 00	40	.....	.....	5
1,734	3	1	4	.....	1,020	.....	190	1,020	90	52	.....	.....	6
333	1	.....	1	.....	222	.....	100	222	1 00	3	.....	.....	7
300	2	.....	2	.....	200	.....	70	200	90	.....	.....	.....	8
6,553	10	3	13	.....	3,622	200	200	3,822	1 00	120	.....	.....	9
3,771	7	2	9	.....	2,312	200	180	2,512	1 00	126	.....	.....	10
1,057	3	1	4	.....	604	.....	120	604	1 00	25	.....	.....	11
735	3	.....	3	.....	420	.....	100	420	1 00	.....	.....	.....	12
612	2	.....	2	.....	350	.....	100	350	1 00	2	.....	.....	13
5,460	8	1	9	.....	3,520	200	230	3,720	1 00	150	.....	.....	14
66,575	91	26	117	.....	45,056	1,146	150	46,202	\$0 80	1,889	.....	.....	.....
\$117,136	132	44	176	36,456	45,898	1,746	.....	84,100	.....	3,240	.....	.....	1
.....	.....	.....	.....	.....	.....	.....	240	.....	*\$0 64	.....	.....	.....	.....

* Where union scale is in effect (gross weight).

Stark County—Second District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
1	Robinson & Watson.....	Wyoming.....	2,892	2,692	.....	.....	.....	200
2	George R. Watson.....	..do.....	2,512	2,012	.....	.....	.....	500
3	Henry Storey.....	..do.....	1,280	1,280	.....	.....	.....	.....
4	John W. Robinson.....	..do.....	940	940	.....	.....	.....	.....
5	James Higbee.....	..do.....	900	850	.....	.....	.....	50
6	Foster Coulson.....	..do.....	800	800	.....	.....	.....	.....
7	John Price.....	..do.....	440	440	.....	.....	.....	.....
8	John Thurston.....	..do.....	312	312	.....	.....	.....	.....
9	John Scott.....	Modena.....	1,440	1,440	.....	.....	.....	.....
10	Alex Morrison.....	..do.....	1,400	1,400	.....	.....	.....	.....
11	Benjamin Smith.....	..do.....	975	975	.....	.....	.....	.....
12	Strauther French.....	Bradford.....	1,600	1,400	.....	.....	.....	200
13	Chas. Montooth.....	..do.....	1,200	1,000	.....	.....	.....	200
14	Wm. W. Jones.....	..do.....	960	960	.....	.....	.....	.....
15	J. M. Robinson.....	Elmira.....	2,300	2,000	.....	.....	.....	300
16	John Catton.....	West Jersey.....	1,228	1,228	.....	.....	.....	.....
17	John Leitch.....	Lafayette.....	1,000	1,000	.....	.....	.....	.....
18	Bever Bros.....	Castleton.....	900	800	.....	.....	.....	100
19	Haney Dunn.....	Osceola.....	800	800	.....	.....	.....	.....
20	Joseph Goode.....	Lombardville.....	600	480	.....	.....	.....	120
21	John E. Perkins.....	Osceola.....	320	320	.....	.....	.....	.....
Totals.....			24,799	23,129	.....	.....	.....	1,670
Averages.....			.....	.....	.....	.....	.....	.....

Mines in 1901, 22.

New mines, 3.

Abandoned mines, 4.

Mines in 1902, 21.

Stark County—Second District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$4,138	6	1	7	.....	2,692	200	260	2,892	\$0 87 ¹ / ₂	20	.....	1
3,771	5	12	17	.....	2,212	300	220	2,512	87 ¹ / ₂	40	.....	12
1,920	4	1	5	.....	1,280	.....	200	1,280	87 ¹ / ₂	20	.....	3
1,645	3	1	4	.....	940	.....	160	940	87 ¹ / ₂	22	.....	4
1,512	3	1	4	.....	850	50	150	900	87 ¹ / ₂	20	.....	5
1,200	3	.....	3	.....	800	.....	140	800	87 ¹ / ₂	.....	.....	6
660	12	.....	12	.....	440	.....	120	440	87 ¹ / ₂	8	.....	7
468	12	.....	12	.....	312	.....	120	312	87 ¹ / ₂	.....	.....	8
2,160	5	1	6	.....	1,440	.....	184	1,440	87 ¹ / ₂	20	.....	9
2,100	4	1	5	.....	1,400	.....	200	1,400	87 ¹ / ₂	.....	.....	10
1,462	5	1	6	.....	975	.....	156	975	87 ¹ / ₂	20	.....	11
2,900	5	1	6	.....	1,600	.....	200	1,600	1 00	150	.....	12
2,100	4	1	5	.....	1,200	.....	150	1,200	1 00	100	.....	13
1,920	3	1	4	.....	960	.....	160	960	1 00	40	.....	14
3,650	4	1	5	.....	2,000	300	300	2,300	1 00	30	.....	15
2,149	3	1	4	.....	1,228	.....	273	1,228	90	28	.....	16
1,500	3	1	4	.....	1,000	.....	225	1,000	87 ¹ / ₂	.....	.....	17
1,250	12	1	13	.....	800	100	200	900	1 00	8	.....	18
1,000	5	1	6	.....	800	.....	90	800	75	.....	.....	19
1,020	12	1	13	.....	500	100	150	600	1 00	24	.....	20
450	12	.....	12	.....	320	.....	100	320	75	.....	.....	21
\$39,005	75	18	93	.....	23,749	1,050	.....	24,799	.....	550	.....	.....
.....	.....	.....	.....	.....	.....	.....	180.4	.....	\$0 91	.....	.....	.....

Warren County—Second District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	H. J. Rohr.....	Alexis.....	2,544	2,294				250
2	Chas. McCartney.....	do.....	2,400	2,200				200
3	Sam'l McKahan.....	do.....	1,700	1,700				
4	John Simcock.....	do.....	1,200	1,200				
5	Thos. Smith.....	Avon.....	600	600				
6	Thos. Delaney.....	do.....	580	580				
7	Henry Fullerton.....	do.....	560	560				
8	Willis Clayton.....	do.....	540	540				
9	Thos. Caldwell.....	do.....	480	480				
10	C. H. Miller.....	Youngstown.....	640	640				
11	Thos. Lee.....	do.....	400	400				
12	Thos. Wearmouth.....	do.....	350	350				
13	Joseph Simpson.....	Swan Creek.....	200	200				
14	John Selkirk.....	Monmouth.....	960	960				
15	Murphy & Redmond.....	do.....	1,100	1,100				
16	John Willard.....	Roseville.....	1,040	1,040				
17	J. G. Kidd.....	do.....	240	240				
Totals—17 mines.....			15,534	15,084				450
Averages.....								

Mines in 1901, 18.

New mines, 1.

Abandoned mines, 2.

Mines in 1902, 17.

Warren County—Second District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$3,566	5	1	6	.....	2,344	200	160	2,544	\$0 75	100	1	1	1
3,450	5	1	6	.....	2,200	200	180	2,400	75	100	2	2	2
2,550	4	1	5	.....	1,700	.....	160	1,700	75	100	3	3	3
1,800	3	1	4	.....	1,200	.....	200	1,200	75	75	4	4	4
1,050	.....	.....	.....	.....	600	.....	220	600	1 25	.....	5	5	5
1,015	.....	.....	.....	.....	580	.....	150	580	1 25	.....	6	6	6
980	.....	.....	.....	.....	560	.....	230	560	1 25	.....	7	7	7
945	.....	.....	.....	.....	540	.....	175	540	1 25	.....	8	8	8
960	3	1	4	.....	480	.....	140	480	1 25	.....	9	9	9
1,280	2	.....	2	.....	610	.....	210	640	1 25	.....	10	10	10
800	2	.....	2	.....	400	.....	120	400	1 25	.....	11	11	11
700	2	.....	2	.....	350	.....	100	350	1 25	.....	12	12	12
400	1	.....	1	.....	200	.....	120	200	1 25	.....	13	13	13
1,900	5	1	6	.....	960	.....	160	960	1 25	.....	14	14	14
2,200	3	1	4	.....	1,100	.....	230	1,100	1 25	.....	15	15	15
2,340	6	1	7	.....	1,040	.....	160	1,040	1 25	.....	16	16	16
480	2	.....	2	.....	240	.....	100	240	1 25	.....	17	17	17
\$26,416	54	8	62	.....	15,134	400	.....	15,534	.....	375	1	1	1
.....	.....	.....	.....	.....	.....	.....	165.6	.....	\$1 00	.....	.....	.....	.....

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau	8	1,711,749	1,271,673	93,271	20,590	32,403	121,774	172,038	\$2,216,276
Henry	2	44,541	34,179	.....	.....	200	10,162	.....	60,408
Knox	1	36,902	18,812	6,502	.....	.....	11,588	.....	39,826
Marshall.....	4	437,191	289,079	67,985	.....	5,370	62,218	12,539	558,164
Mercer.....	8	584,308	351,712	9,026	.....	33,968	80,423	109,179	660,358
Rock Island..	2	37,898	29,293	.....	.....	.....	8,147	458	50,561
Totals and averages	25	2,852,589	1,994,743	176,784	20,590	71,941	294,312	294,214	\$3,585,593

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau	10	21,064	20,589	295	.....	.....	125	55	\$35,783
Henry	33	69,156	59,523	547	.....	3,300	5,686	100	118,065
Knox	34	52,306	49,033	.....	.....	.....	3,273	.....	78,582
Marshall.....	13	4,452	4,452	.....	.....	.....	.....	.....	5,980
Mercer.....	9	18,414	17,718	.....	.....	276	.....	420	25,839
Rock Island..	14	46,202	37,491	.....	.....	.....	.....	8,711	66,575
Stark	21	24,799	23,129	.....	.....	.....	.....	1,670	39,005
Warren	17	15,534	15,084	.....	.....	.....	450	.....	26,416
Totals and averages	151	251,927	227,019	842	.....	3,576	9,534	10,956	\$396,245
Totals district—all mines..	.....	3,104,516	2,221,767	177,626	20,590	75,517	303,846	305,170	\$3,981,838

Whole number of mines reported for 1901, 187.
 Number of new mines opened during the year, 21.
 Number of mines abandoned during the year, 32.
 Whole number of mines reported for 1902, 176.

Second District—1902—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal cas't's.
Number of miners.	All other employé's.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
2,804	958	3,762	1,599,352	20,711	30,902	60,784	260.6	1,711,749	.....	\$0.76	.....	56	3	38
80	19	99	38,778	.....	4,963	800	221.5	44,541	.....	0.65	.....	..	..	..
65	12	77	35,982	920	.....	.....	280	36,902	.....	0.65	.....	.....	1	..
674	224	898	377,424	30,500	16,134	13,133	233	433,148	4,043	0.75	*	1,218	..	12
550	344	894	544,003	1,681	15,053	23,571	215.8	584,308	.....	0.60	.....	29,085	3	6
41	18	59	36,456	.....	842	600	240	37,898	.....	0.65	.....	1,351	..	1
4,214	1,575	5,789	2,631,995	53,812	67,894	98,888	237.8	2,848,546	4,043	\$0.72	.....	31,710	6	58

Second District—1902—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties. Number non-fatal cas't's.
Number of miners.	All other employ'cs.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		
52	11	63	.....	.....	20,914	150	187.5	21,064	.....	\$0.844	.....	291	..
171	37	208	.....	.....	67,056	2,100	167.2	69,156	.....	0.947	.....	218	1
151	23	174	.....	.....	51,106	1,200	162	52,306	.....	0.737	.....	333	..
26	.....	26	.....	.....	4,452	.....	113	4,452	.....	0.88	.....	162	..
40	11	51	.....	.....	13,334	5,080	163	18,414	.....	0.85	.....	955	..
91	26	117	.....	.....	45,056	1,146	149.6	46,202	.....	0.80	.....	1,889	..
75	18	93	.....	.....	23,749	1,050	180.4	24,799	.....	0.91	.....	550	..
54	8	62	.....	.....	15,134	400	165.6	15,534	.....	1.00	.....	375	.. 1
660	134	794	.....	.....	240,801	11,126	162.6	251,927	.....	\$0.86	.....	4,773	1 1
4,874	1,709	6,583	2,631,995	53,812	308,695	110,014	173.3	3,100,473	4,043	.....	.....	36,483	7 59

* Men paid \$2.10 per day.

THIRD INSPECTION DISTRICT—1902.

NINETEENTH ANNUAL REPORT.

Counties: Cass, Fulton, Hancock, McDonough, Menard, Peoria, Schuyler and Tazewell.

JAMES TAYLOR, *Inspector*, Peoria.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Illinois.

SIR:—By virtue of an act of the General Assembly, I have the honor to herewith submit the nineteenth annual report of the coal mines located in the third inspection district, including the coal producing counties of Cass, Fulton, Hancock, McDonough, Menard, Peoria, Schuyler and Tazewell.

The present report gives the number of tons of coal mined with machinery; the number and name of mining machines in use; the number of tons of coal mined by machines and by hand; the number of tons of coal blasted with powder; the number of kegs of powder consumed; the number of boys over 14 years of age, also the number of miners and other employés in the mining industry of the district; the aggregate value of the total product at the mines; the number of shipping and local mines; the thickness of the coal seams with the geological number thereof and the distance below the surface; the number of casualties, fatal and non-fatal; the number of mines, old, new and abandoned; the total tons of the different grades of coal produced, and the number of days of active operation during the year.

The total number of mines in the district is 241, 24 of which are new, 56 are shipping, while 185 are local mines. Of the 241 mines, Cass county has 2, Fulton 67, Hancock 6, McDonough 47, Menard 13, Peoria 72, Schuyler 20, and Tazewell 14.

Employes.—The total number of employés in and about the mines is 4,268, of which 3,177 are miners, 539 day men are employed underground and 429 are employed above ground, and 123 boys are employed in and about the mines.

Ventilation.—There are 130 mines ventilated with fans, 71 with furnaces and 40 by natural ventilation.

New Mines.—The Monmouth Coal Co.'s mine, Canton, Fulton county, is located on the C. B. & Q. R. R. $3\frac{1}{2}$ miles north of the city. Work of sinking the main shaft began July 17, 1901. The shaft is 8x16 feet. The No. 6 seam of coal was found 80 feet below the surface, and the No. 5 seam 150 feet below. The shaft is curbed with 3x8 inch timbers for the first 50 feet, and from there to the bottom with 2x12 inch timbers having double ends with a space of 15 inches between; this space can be used to conduct pipes into the mine, the main object being to enable the end guides to be securely bolted.

The tower or head gear of the mine is constructed of frame work; the main posts are 12x12 inches and 60 feet long, braced with timbers of the same size, securely fastened with cross rods of $1\frac{1}{4}$ inch iron, with turn buckles. The mine is equipped with self-dumping cage and weigh pan. The method used in separating the coal is the shaker screen process which makes six different grades: lump, mine run, egg, nut, pea and slack. The engine and boiler house is a frame building having a gravel roof. The size of the building is 46x50 feet with a partition between the boiler room and engine room. The steam power consists of two horizontal boilers 60-inch shell, 24 feet long, and an 80-horse power double hoisting engine, friction clutch, all built by the Ottumwa Iron Works.

The air and escapement shaft is 6x10 feet and is equipped with a 12-foot fan; it also has a stairway at an angle of 45 degrees.

The company has plotted a town site, the name of which is Brereton; and has built 25 cottages of four rooms each, with out buildings. The company is drilling an artesian well to supply the town with a water works system. This is one of the finest modern mining towns in the State.

The Whitebreast Fuel Co., Dunfermline, Fulton county, has erected a modern steel tower or head gear, equipped with dumping cages and weigh pan. This property was described in the report of my predecessor; it is the only mine having a steel tower in the district.

There is one new mine at Ipava and one at Avon, Fulton county. The following six new mines have been opened in McDonough county: at Colchester, Hall & Stevens; Hunter, Burney & Steward; Anton Lokosik and Goldsberry & Sons; at Tennessee, T. Whalin and Waddill Bros.

The Petersburg Coal Mining Co., Petersburg, Menard county, has sunk a shaft north of Petersburg but found no coal; this was abandoned and the company sunk another shaft one mile and a half south of Petersburg, at which place they found six feet of coal, with a good roof; both hoisting and escapement shafts have been completed. The air shaft is equipped with a 12-foot Brazil fan. Railroad side tracks are completed to the mine and the company is now shipping coal. Two other new mines have been opened in Menard county, one at Loyd, and one at Tice, both for local trade.

Taylor & Son, Princeville, Peoria county, have opened a new mine $2\frac{1}{2}$ miles from the town.

C. H. Ellis, Augusta, Hancock county, has opened a new mine for local trade. It is a slope to seam No. 2, and is covered with 35 feet of surface.

Velpo Roosa, of Pleasant View, and J. Hamilton, of Frederick, both of Schuyler county, have opened new mines for the local trade. The former is a gin shaft and the latter a slope. They are both working No. 5 seam.

In Peoria county there have been nine new mines opened, all for the local trade.

Fred Seffer, East Peoria, Tazewell county, is now opening a new mine south of Coal Hollow. Williams, Wantling & Co. are sinking a new shaft at Limestone, Peoria county.

A new shaft is being sunk at Middletown, Menard county.

Shafts.—Newsam Bros., Peoria, have completed a new escapement shaft at their Reed City mine, Peoria county.

Abandoned Mines.—The Whitebreast Fuel Co., St. David, Fulton county, abandoned its mine D, May 1, 1902, having worked out all the leased coal land.

The Stanton Coal Co., Isaac Stone, Wm. Hodgson, Hillery Bros., all of Colchester, McDonough county, have abandoned the mines formerly operated by them.

Dull Bros., Tennessee, McDonough county, have abandoned their mine at that place. Two mines in Menard county and one in Tazewell county have been abandoned.

Improvements.—There have been a number of extensive improvements made at the mines in this district during the year, some of them quite extensive. The following are noted:

Communication between the escapement and hoisting shaft at the Whitebreast Fuel Co.'s mine E, Dunfermline, Fulton county, is now completed. The company has erected a 14-foot steel fan, enclosing it with fire proof material.

A. C. Mack and James K. Yocum & Son, Lewistown, Fulton county, have had their escapement shafts sunk for some time, but failed to supply them with stairways until notified by the inspector. The stairways have been put in, in compliance with the law.

Newsam Bros., of Peoria, have retimbered a portion of their hoisting shaft at Farmington, Fulton county, and repaired the stairway in the escapement shaft. They have also cleaned the traveling way, all of which has very much improved this mine.

The Astoria Coal Mining Co., at Astoria, Fulton county, has retimbered its escapement shaft, and has also repaired the stairways from top to bottom.

The Applegate & Lewis Coal Co., of Cuba, Fulton county, is putting in a box-car loader.

The Maplewood Coal Co., Farmington, Fulton county, is installing an electric light plant for use at its mine, and is also enlarging the air shaft for the purpose of making a lawful escapement. The company has, at considerable expense, built one of the best and most successful shaker screens in the State, and has also erected a new tower and equipped it with self-dumping cages and weigh pan.

Cluskey & Simmons, Monica, Peoria county, have put a new stairway in their escapement shaft and repaired the air course.

Oscar Graves, Duncan, Peoria county, has put a new gin and hoisting ropes in his mine.

Howarth & Taylor, Edwards, Peoria county, have greatly improved their mine by opening communication between the drift and the new air shaft.

Walschlag Co-operative Coal Co., Peoria, Peoria county, has shot down its slope and regraded the incline from the mouth of the slope to the end of the haulage road.

The Royster & Ziegler mine, Peoria, Peoria county, has been purchased by the C. Clark Coal Co., Peoria. The mine has been very much improved by the erection of a new shaker screen, also by replacing the track scales and the rearranging of the top works. The ventilation of the mine has been much improved by the erection of a new 12-foot fan. The bottom of the shaft has been retimbered.

S. Reents & Son, Kramm, Peoria county, have replaced the furnace at their mine with an eight-foot fan, thus improving the ventilation of the mine.

The German Coal Company, Mapleton, Peoria county, has repaired and cleaned up the return air-way in its mine, thereby increasing the volume of air circulating through the mine.

Newsam Bros., Peoria, Peoria county, have very much improved their Star mine by retimbering the bottom of the shaft, cleaning out the air-course and traveling way to the escapement shaft.

The Manhattan Coal Company, East Peoria, Tazewell county, is sinking a new escapement shaft. It is now down 98 feet and will connect with the face of the workings, when completed.

The dump at Doring & Co.'s mine, East Peoria, Tazewell county, was washed away by the heavy rain of June 10, 1902. The dump has been rebuilt and the mine is again working as usual.

Gustave Giebelhausen, East Peoria, Tazewell county, put in a new dump, platforms and screens.

The Progressive Coal Company, East Peoria, Tazewell county, has replaced the old boilers at its mine with two large new ones.

A. G. Cumming, East Peoria, Tazewell county, has improved the inside workings of his mine by retimbering the bottom of the shaft, grading the roadways, retimbering the main entry and cutting off the old works with a new cross-entry.

The Ubben Coal Company, Pekin, Tazewell county, has put in a new Litchfield hoisting cage.

King & Groosweiler, Pekin, Tazewell county, have sunk their shaft 60 feet deeper to seam No. 5. They have driven the entries to a point beneath the old escapement shaft, and are now driving upward to connect with the escapement shaft.

Ed Little, Wesley City, Tazewell county, has enlarged and retimbered the traveling way to the escapement shaft of his mine and has put in new steps to the stairway in the escapement shaft, and added hand rails to the stairway.

At Grant Bros. mine, Pekin, Tazewell county, the only means heretofore of egress from this mine was by climbing the buntons in the air-shaft; this has been improved by replacing the buntons with a stairway. They have also reset their steam boilers, enclosing them with a new brick wall.

Bolander Bros., Pekin, Tazewell county, have replaced the old guides in their shaft with new ones, and covered the hoisting cage for the better protection of the men.

The Tallula Coal Company, Tallula, Menard county, has secured an increase in the quantity of air passing through its mine by changing the spiral casing around the ventilating fan.

The Wabash Coal Company, Athens, Menard county, is cleaning out the return air-way in its shaft, and expects thereby to secure a sufficient quantity of air. If this should fail the company will put in a new fan.

The Junction Co-operative Coal Company's shaft at Petersburg, Menard county, is now being operated by the Valley Coal Company. This company is retimbering the hoisting shaft, and placing a stairway in the escapement shaft.

Destruction of Mine Property by Wind and Rain Storms.—During the terrific wind and rain storm of May 2, 1902, in the vicinity of Farmington, Fulton county, huge volumes of water poured over the ground under which Newsam Bros. mine at that place is located. The water flowed down the shaft, washing away about twelve feet of the surface, carrying the cage and dirt to the bottom of the shaft, closing it in. Forty-two miners were at work in the mine at the time of the storm, but they were all able to leave the mine by way of the escapement shaft.

Another storm occurred June 10, 1902, at Norris, Fulton county, which destroyed all the top works of the Norris Coal & Mining Company's plant near that place, including the head gear, dumps and engine and boiler house. The company is now reconstructing the tower, which is a frame work, also rebuilding the engine and boiler house, erecting a shaker screen and railroad chutes. The damage to this plant is estimated to be \$8,000. The same storm destroyed the chutes and smoke stack, also twisting the head frame out of place, at the Ed Little mine at Wesley City, Tazewell county. It required ten days to make the repairs. The damage was estimated to be \$400. This storm also destroyed the dump and weigh house at James Walker's slope mine, located at Mapleton, Peoria county. At Newsam Bros. mine, Kingston, Peoria county, the same storm made a complete wreck of their mine. The tramways, dumps, engine and boiler houses and blacksmith shop were all blown away and destroyed. Ten thousand dollars was the estimated damage.

Fires.—At midnight, January 14, 1902, the tower, shaker screen and buildings at the Maplewood Coal Company's mine, located at Farmington, were destroyed by fire, estimated loss \$12,000. The property was partly insured. The miners at this mine had been out on strike 27 days on account of there not being doors on all the mine cars. The miners had returned to work the day of the fire.

The engine and boiler house at P. W. Meehan's mine, located at Cuba, Fulton county, was destroyed by fire Saturday night, February 15, 1902. Estimated loss, \$1,400; fully covered by insurance. The buildings were rebuilt and the mine was again in operation within sixty days from the date of the fire.

Fire destroyed all the buildings, engine, drum, etc., of Meredith Bros. mine, located at Augusta, Hancock county, March 12, 1902. Estimated damage, \$2,000; no insurance.

Newsam Bros., Peoria, lost the engine and boiler house at their Hanna City mine, Peoria county, by fire, Sunday night, March 16, 1902. Estimated damage, \$1,600; partly covered by insurance.

Fatal Accidents.—The total number of fatal accidents in this district for the year is six, four of which occurred previous to my assuming the duties of inspector for the district, November 11, 1901.

July 2, 1901, John Kennitz, miner, age 27 years, married, was killed instantly at the Howarth & Taylor mine at Edwards, Peoria county. He was working a room in which there was a bad slip in the roof, and, according to the evidence before the coroner's jury, he had not timbered the roof sufficiently to make it secure. At about eight o'clock, apparently without warning, the rock fell. It required the combined efforts of several men some time to extricate the remains. Deceased was a German, having been born in Prussia. He leaves a widow and two children.

September 24, 1901, Ely Gaveia, miner, aged 36 years, married, was killed in the Junction Co-operative Coal Co.'s mine at Petersburg; on the morning of the above date he was at work in his room loading a car when a large piece of slate at the face of the room from between two slips, fell with the result as stated. He had been notified by the man that examined his room that morning to put up props, and it appears that he intended to do so after loading his car; the piece of slate that fell on him would weigh about 1,500 pounds. Bunt O'Laughlin, a miner, working in the next place heard the fall, and went to the room when he found him under the slate; O'Laughlin secured assistance at once and removed the slate, but found that Gaveia was dead, his neck was broken. He leaves a widow.

October 4, 1901, Lewis Potter, miner, age 48 years, married, was fatally injured by a fall of slate at the face of his room in the Standard Coal Co.'s mine, East Peoria, Tazewell county, from the effects of which he died four days afterward at the hospital in Peoria. He leaves a widow and one child.

November 1, 1901, Fritz Applehieser, miner, 70 years of age, married, was fatally injured in the Standard Coal Co.'s mine, East Peoria, Tazewell county. He was working out a shot of coal when a fall of roof caught him from the effect of which he died the following evening.

November 19, 1901, James McKinney was fatally injured at the old Crandall mine, located near Hollis, Peoria county. McKinney began taking water from this mine the day before. The day the accident occurred he was trying to run the engine (he was not an engineer); a balance weight weighing 1,400

pounds was pulled over the guides and went crashing through the roof of the engine house, crushing him to the ground; he died within an hour after the accident, leaving a widow and one child. No coal had been taken out of this mine during the past year.

December 23, 1901, Peter Ennis, miner and operator, age 35 years, married, was killed in the mine operated by himself and Mr. Schnider, near Peoria, Peoria county. He had lighted a shot in his working place; the blast not exploding as soon as he expected he went back to find out the reason; just as he got in front of the shot it exploded, killing him instantly.

February 21, 1902, John Phederspell, miner, age 27 years, single, was killed at his working place by a fall of roof in the Third Vein Coal Co.'s mine, Orchard Mines, Peoria county.

The usual tables of fatal and non-fatal accidents follow, also the county tables of the output of coal.

Respectfully submitted,

JAMES TAYLOR,

State Inspector of Mines, Third District.

PEORIA, ILLINOIS.

Fatal Casualties—Third District, July 1, 1902.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependent.	Cause of Accident.
1901										
July 2	John Kemnitz.....	27	Miner.....	Edwards ...	1	1	2	..	3	Falling slate.....
Sept. 24	Ely Gaveia.....	36	Miner.....	Petersburg.	1	1	..	..	1	Falling slate.....
Oct. 4	Lewis Potter.....	48	Miner.....	East Peoria.	1	1	1	..	2	Falling slate.....
Nov. 1	Fritz Applehieser.....	70	Miner.....	East Peoria.	..	..	..	1	..	Falling slate.....
Dec. 23	Peter Ennis.....	35	Operator....	Peoria.....	1	1	2	..	3	Blast; explosion....
1902										
Feb. 21	John Phederspell.....	27	Miner&Op'r	Pekin .....	..	..	..	1	..	Falling roof.....
	Totals.....	..	.....	.....	4	4	5	2	9	

Recapitulation of Fatal Accidents—Third District, 1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
East Peoria..	2	Miners.....	5	Blast; explosion...	1	Crandall's mine.....	1
Edwards....	1	Miner & Op'r.	1	Fall of roof.....	5	Howarth & Taylor...	1
Pekin.....	1					Junction Co-op C. Co.	1
Peoria.....	1					Schneider & Ennes.	1
Petersburg..	1					Standard Coal Co....	1
						Third Vein Coal Co..	1
Totals....	6	..	6	.....	6	.....	6

Non-Fatal Casualties—Third District, July 1, 1902.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependent.	Character and Cause of Injury	Time lost—days.
1901									
Oct. 30	A. Richardson.....	25	Wolcott.....	.....	1	.....	.....	Leg broken, falling coal.....	*
Oct. 2	John Owens.....	23	Farmington.....	.....	1	.....	.....	Hips injured, pit cars.....	
Oct. 11	Frank Turner.....	31	Petersburg.....	.....	1	.....	.....	Leg hurt, sliding down rope..	
Oct. 12	Wm. John.....	65	Wolcott.....	.....	1	.....	.....	Hands and face burned, by blast explosion.....	
Oct. 12	Thos. A. Wright..	45	Wolcott.....	1	.....	5	6	Hands and face burned by blast explosion.....	
Oct. 12	Wm. McElhany..	45	Wolcott.....	1	.....	4	5	Hands and face burned by blast explosion.....	
Oct. 22	Joseph Johnson..	32	Norris.....	1	.....	2	3	Hands and face burned by blast explosion.....	
Oct. 22	Frank Auld.....	30	Norris.....	1	.....	1	2	Hands and face burned by blast explosion.....	
1902									
Feb. 21	Robert Young.....	40	Tallula.....	1	.....	3	4	Back injured, falling roof.....	
Feb. 22	Geo. Martin.....	43	Middle G'v'e	1	.....	2	3	Leg broken, descending cage.	
Apr. 16	Edward Piper.....	25	Tallula.....	.....	1	.....	.....	Body injured, falling roof.....	
July 11	Isaiah Davis.....	25	Astoria.....	1	.....	3	4	Rib broken, falling off car....	

Total injured, 12.

* Time lost not stated.

Recapitulation of Non-Fatal Accidents—Third District, 1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Astoria.....	1	Drivers.....	2	Blasts.....	5	Astoria Coal Co.....	1
Farmington..	1	Mine Managr	1	Cage.....	1	Mallegrahm, J. W.....	1
Middle Grove	1	Miners.....	9	Falling coal.....	1	Newsam Bros.....	5
Norris.....	2			Falling roof.....	2	Norris Coal Co.....	2
Petersburg...	1			Hoisting rope.....	1	Sunday Creek Coal Co..	1
Tallula.....	2			Pit cars.....	2	Tallula Coal Co.....	2
Wolcott.....	4						
Totals.....	12		12		12		12

Recapitulation of Non-Fatal Casualties, Nature of Injuries, Conjugal Relations and Time Lost—Third District, 1902.

Nature of Injuries.	Number.	Married.	Single.	Dependent.	TIME LOST.		Per cent of Injured.
					Total Days.*	Average Days.	
Back injured.....	1	1	.....	4	.....	.....	8.33
Body injured.....	1	.....	1	.....	.....	.....	8.33
Hands and faces burned.....	5	4	1	16	.....	.....	41.67
Hips and legs injured.....	1	.....	1	.....	.....	.....	8.33
Legs broken.....	2	1	1	3	.....	.....	16.67
Legs injured.....	1	.....	1	.....	.....	.....	8.33
Ribs broken.....	1	1	.....	4	.....	.....	8.34
Totals, Averages and Percentages...	12	7	5	27	.....	.....	100.00

* Not reported.

Cass County—Third District, 1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Chris Nelson.....	Chandlerville	500	500	.....	.....	.....	.....
2	Wm. Shore.....	do	1,600	1,400	.....	.....	.....	200
Totals			2,100	1,900	.....	.....	.....	200

Mines in 1901, 2.

Mines in 1902, 2.

Fulton County—Third District, 1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Astoria Coal & Mining Co...	Astoria	51,234	30,858	.....	.....	7,181	13,195
2	Scripps Coal Co	do	37,575	23,419	1,709	.....	.....	9,522
3	Canton Union Coal Co.....	Canton	24,860	14,320	5,800	.....	2,370	2,370
4	J. M. Laws.....	do	8,001	2,129	5,144	.....	.....	728
5	Monmouth Coal Co.....	do	34,016	17,479	166	3,975	4,286	8,110
6	Taylor & Peck.....	Cuba	5,000	5,000	.....	.....	.....	.....
7	Whiteleather Coal Co.....	do	10,240	7,168	.....	.....	.....	3,072
8	P. W. Meehan.....	do	33,000	22,000	3,000	.....	.....	8,000
9	Applegate & Lewis.....	do	54,709	29,500	13,125	.....	1,474	10,610
10	Whitebreast Fuel Co.....	Dunfermline ..	131,291	95,828	1,456	.....	15,281	18,726
11	Whitebreast Fuel Co.....	do	50,300	31,859	8,088	.....	217	10,136
12	Whitebreast Fuel Co.....	St. David	47,962	34,376	665	.....	5,917	7,004
13	Maplewood Coal Co.....	Farmington ..	105,228	70,152	.....	.....	.....	35,076
14	Newsam Bros.....	do	38,130	25,166	.....	.....	7,626	5,338
15	Farmington Coal Co.....	do	36,899	16,740	13,400	.....	1,436	5,323
16	Monarch Coal & Mining Co.	do	13,015	8,132	1,531	.....	.....	3,352
17	Scripps Coal Co.....	Ipava	12,000	10,000	.....	.....	.....	2,000
18	Sunday Creek Coal Co.....	Middle Grove ..	58,814	41,170	.....	17,644	.....	.....
19	Norris Coal Co.....	Norris	54,000	33,000	.....	.....	.....	21,000
Totals			806,274	518,296	54,034	21,619	48,713	163,562

Cass County—Third District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$ 875 00	2	1	3	.....	500	.....	100	500	\$0 87½	25	....	....	1
2,850 00	3	2	5	.....	1,600	.....	200	1,600	87½	75	....	....	2
\$3,725 00	5	3	8	.....	2,100	.....	150	2,100	\$0 87½	100	....	....

Fulton County—Third District—Continued.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$ 53,396	64	26	90	50,620	400	214	294	51,234	\$0 56	1,316	....	1	1
40,592	34	16	50	36,841	387	347	286	37,575	56	1,032	....	....	2
24,709	40	12	52	18,390	6,000	470	235	24,860	56	1,097	....	....	3
7,711	15	4	19	7,801	.....	200	160	8,001	56	320	....	....	4
34,800	102	47	149	31,230	291	2,495	121	34,016	56	1,583	....	....	5
6,000	3	1	4	4,000	1,000	.....	156	5,000	56	125	....	....	6
10,138	20	6	26	10,240	.....	.....	180	10,240	56	220	....	....	7
31,800	60	14	74	33,000	.....	.....	190	33,000	56	900	....	....	8
55,409	70	23	93	51,834	75	2,800	220	54,709	56	1,750	....	....	9
140,488	159	63	222	126,991	798	3,502	233	131,291	56	5,363	....	....	10
52,250	85	41	126	48,788	.....	1,512	98	50,300	66	1,623	....	....	11
50,993	71	38	109	46,526	.....	1,436	162	47,962	56	1,724	....	....	12
105,228	110	35	145	100,378	1,400	3,450	238	105,228	56	5,848	....	....	13
36,071	45	17	62	35,330	1,800	1,000	238	38,130	56	1,997	....	1	14
37,227	43	26	69	34,383	1,134	1,382	222	36,899	56	1,835	....	....	15
12,749	15	10	25	11,569	246	1,200	221	13,015	56	639	....	....	16
13,500	23	6	29	12,000	.....	.....	156	12,000	56	400	....	....	17
70,871	65	31	96	58,814	.....	.....	205	58,814	56	2,930	....	....	18
57,600	62	52	114	52,500	200	1,300	269	54,000	56	2,347	....	....	19
\$841,562	1,086	468	1,554	771,235	13,731	21,308	204	806,274	\$0 56	33,049	....	....	5

Fulton County—Third District—Continued.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	K. A. Rumble.....	Astoria.....	1,573	1,498	75			
2	Joseph Wilson.....	do.....	410	410				
3	E. R. Lannery.....	do.....	240	240				
4	Wm. Peters.....	do.....	310	310				
5	A. J. Rockwell.....	do.....	340	340				
6	G. Van Winkle.....	Avon.....	120	120				
7	R. Belding.....	do.....	320	320				
8	Canton Coal Co.....	Canton.....	24,000	24,000				
9	J. Naylor.....	do.....	2,160	2,160				
10	Joe McLaughlin.....	do.....	450	400				50
11	Murphy Bros.....	do.....	2,648	2,648				
12	S. Ashby.....	do.....	1,820	1,820				
13	Howat Bros.....	do.....	1,000	1,000				
14	Thomas Parcell.....	do.....	2,640	2,640				
15	Chipping & Martin.....	do.....	3,010	3,010				
16	Chas. Scanlon.....	do.....	1,260	1,260				
17	G. H. Rouk.....	do.....	510	510				
18	Wm. Hughes.....	do.....	640	640				
19	E. E. Peck.....	do.....	2,310	2,310				
20	Lewis Memmon.....	do.....	1,420	1,420				
21	G. K. Barrere.....	do.....	920	920				
22	John Stevens.....	Cuba.....	555	550		5		
23	John Wright.....	do.....	400	400				
24	George Marshall.....	do.....	1,210	1,210				
25	R. Joner.....	do.....	300	300				
26	McBroom Bros.....	Canton.....	920	920				
27	George Mercey.....	St. David.....	610	610				
28	H. Tompkins.....	do.....	500	500				
29	C. W. Tyler.....	do.....	400	400				
30	A. Bath.....	do.....	2,120	2,120				
31	A. DeMoss.....	do.....	359	350				
32	Wm. Jordan.....	do.....	320	320				
33	Deemy & Raffle.....	Farmington.....	820	820				
34	Cilne & Shaw.....	Fiatt.....	6,210		6,210			
35	A. Anderson.....	Fairview.....	830	830				
36	J. Abbdusky.....	do.....	610	610				
37	George Essex.....	do.....	2,400	2,000	400			
38	E. Detmars.....	do.....	756	756				
39	R. E. Gould & Co.....	do.....	1,200	1,200				
40	A. J. Gunnnett.....	do.....	1,600	1,600				
41	Charles Roddis.....	Ipava.....	1,113	1,113				
42	Isaac Bath.....	Lewistown.....	1,500	1,200			100	200
43	A. C. Mach.....	do.....	3,260	3,260				
44	J. K. Yocum.....	do.....	3,410	3,410				
45	L. Chapin.....	do.....	820	820				
46	A. Eyman.....	do.....	1,260	1,260				
47	Joseph Gansell.....	do.....	810	810				
48	R. Blagden.....	Leaman.....	1,020	1,020				
Totals			83,405	76,365	6,685	5	100	250
Totals—57 mines.....			889,679	594,661	60,769	21,624	48,813	163,812

Mines in 1901, 64.

New mines, 4.

Abandoned mine, 1.

Mines in 1902, 67.

Fullon County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$ 2,191	5	1	6	.....	1,573	.....	250	1,573	\$0 56	47	.....	.....	1
574	1	.....	1	.....	410	.....	150	410	1 00	10	.....	.....	2
336	1	.....	1	.....	240	.....	120	240	1 00	6	.....	.....	3
434	1	.....	1	.....	310	.....	150	310	1 00	8	.....	.....	4
476	1	.....	1	.....	340	.....	110	340	1 00	10	.....	.....	5
210	1	.....	1	.....	120	.....	50	120	75	.....	.....	.....	6
560	2	.....	2	.....	320	.....	120	320	75	.....	.....	.....	7
30,000	25	5	30	.....	24,000	.....	300	24,000	78 $\frac{1}{2}$	560	.....	.....	8
2,700	4	1	5	.....	2,160	.....	210	2,160	78 $\frac{1}{2}$	70	.....	.....	9
462	3	2	5	.....	400	50	110	450	75	20	.....	.....	10
2,979	3	1	4	.....	2,648	.....	300	1,648	78 $\frac{1}{2}$	85	.....	.....	11
2,048	3	1	4	.....	1,820	.....	200	1,820	78 $\frac{1}{2}$	56	.....	.....	12
1,250	6	2	8	.....	1,000	.....	86	1,000	75 $\frac{1}{2}$	20	.....	.....	13
3,300	4	1	5	.....	2,640	.....	210	2,640	78 $\frac{1}{2}$	32	.....	.....	14
3,386	5	5	10	.....	3,010	.....	200	3,010	78 $\frac{1}{2}$	100	.....	.....	15
1,418	3	.....	3	.....	1,260	.....	200	1,260	78 $\frac{1}{2}$	25	.....	.....	16
574	2	.....	2	.....	510	.....	90	510	78 $\frac{1}{2}$	11	.....	.....	17
720	3	.....	3	.....	640	.....	180	640	78 $\frac{1}{2}$	21	.....	.....	18
2,888	6	1	7	.....	2,310	.....	220	2,310	78 $\frac{1}{2}$	71	.....	.....	19
1,775	4	1	5	.....	1,420	.....	130	1,420	78 $\frac{1}{2}$	30	.....	.....	20
1,150	3	.....	3	.....	920	.....	200	920	78 $\frac{1}{2}$	31	.....	.....	21
556	2	1	3	.....	555	.....	120	555	75	25	.....	.....	22
500	1	.....	1	.....	400	.....	150	400	75	21	.....	.....	23
1,513	3	.....	3	.....	1,210	.....	200	1,210	75	46	.....	.....	24
375	1	.....	1	.....	300	.....	160	300	75	20	.....	.....	25
1,035	3	.....	3	.....	920	.....	210	920	78 $\frac{1}{2}$	30	.....	.....	26
763	3	.....	3	.....	610	.....	120	610	75	20	.....	.....	27
625	2	.....	2	.....	500	.....	90	500	75	15	.....	.....	28
400	2	.....	2	.....	400	.....	110	400	75	12	.....	.....	29
2,650	5	.....	5	.....	2,120	.....	120	2,120	75	70	.....	.....	30
438	1	.....	1	.....	350	.....	100	350	75	12	.....	.....	31
400	1	.....	1	.....	320	.....	90	320	75	8	.....	.....	32
1,230	5	1	6	.....	820	.....	90	820	75	30	.....	.....	33
6,210	10	2	12	.....	6,210	.....	230	6,210	56	210	.....	.....	34
1,037	3	.....	3	.....	830	.....	200	830	75	30	.....	.....	35
763	3	.....	3	.....	610	.....	130	610	75	21	.....	.....	36
2,900	6	1	7	.....	2,400	.....	210	2,400	75	70	.....	.....	37
756	2	.....	2	.....	756	.....	200	756	75	25	.....	.....	38
1,500	3	.....	3	.....	1,200	.....	180	1,200	75	36	.....	.....	39
1,600	2	2	4	.....	1,600	.....	250	1,600	75	50	.....	.....	40
1,391	2	.....	2	.....	1,113	.....	300	1,113	*	.....	.....	.....	41
2,380	4	1	5	.....	1,300	200	300	1,500	1 12 $\frac{1}{2}$	100	.....	.....	42
4,890	7	2	9	.....	3,260	.....	260	3,260	1 12 $\frac{1}{2}$	230	.....	.....	43
5,115	7	2	9	.....	3,410	.....	265	3,410	1 12 $\frac{1}{2}$	250	.....	.....	44
1,230	2	1	3	.....	820	.....	220	820	1 12 $\frac{1}{2}$	50	.....	.....	45
1,890	4	.....	4	.....	1,260	.....	230	1,260	1 12 $\frac{1}{2}$	95	.....	.....	46
1,215	2	.....	2	.....	810	.....	210	810	1 12 $\frac{1}{2}$	46	.....	.....	47
1,530	4	.....	4	.....	1,020	.....	160	1,020	75	31	.....	.....	48
\$104,322	176	30	206	.....	83,155	250	1.77	83,405	\$0 50	2,832	.....	.....
\$945,884	1,262	498	1,760	760,681	96,886	21,553	.....	889,679	.....	35,881	.....	4	

* 1113 tons mined at \$1.50 per day.

Hancock County—Third District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Meridith Bros	Augusta	3,700	3,700	.....	.....	.....	.....
LOCAL MINES.								
1	S. Jones.....	Augusta	310	310	.....	.....	.....	.....
2	L. Bennett.....	do	630	630	.....	.....	.....	.....
3	Geo. Willey.....	do	420	420	.....	.....	.....	.....
4	J. W. Marks.....	do	530	530	.....	.....	.....	.....
5	C. H. Ellis	do	720	720	.....	.....	.....	.....
Totals			2,610	2,610	.....	.....	.....	.....
Totals—6 mines.....			6,310	6,310	.....	.....	.....	.....

Mines in 1901, 5.

New mine, 1.

Mines in 1902, 6.

Hancock County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$5,550	10	1	11	3,700	.....	.....	280	3,700	\$1 00	.....	.....	.....	1
\$ 465	2	1	3	.....	310	.....	120	310	\$1 00	.....	.....	.....	1
945	3	1	4	.....	630	.....	200	630	1 00	.....	.....	.....	2
630	2	1	3	.....	420	.....	180	420	1 00	.....	.....	.....	3
795	2	1	3	.....	530	.....	185	530	1 00	.....	.....	.....	4
1,080	4	...	4	.....	720	.....	200	720	1 00	.....	.....	.....	5
\$3,915	13	4	17	.....	2,610	.....	177	2,610	\$1 00	.....	.....	.....
\$9,465	23	5	28	3,700	2,610	.....	.....	6,310	\$1 00	.....	.....	.....

McDonough County—Third District—1902.

			OUTPUT OF MINE IN TONS.					
Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Rippetoe & Rundle, No. 38*..	Colchester....	13,984	12,322	.....	.....	.....	1,662
LOCAL MINES.								
1	R. Laitz	Colchester....	220	220	.....	.....	.....	.....
2	Wm. Martin .....	..do.....	230	230	.....	.....	.....	.....
3	Wm. Robinson .....	..do.....	1,200	1,200	.....	.....	.....	.....
4	F. M. Haines .....	..do.....	222	222	.....	.....	.....	.....
5	George Foster .....	..do.....	640	640	.....	.....	.....	.....
6	M. McClure .....	..do.....	1,120	1,120	.....	.....	.....	.....
7	Wm. Williams .....	..do.....	1,630	1,630	.....	.....	.....	.....
8	J. Zimmerman .....	..do.....	810	810	.....	.....	.....	.....
9	G. Polonus .....	..do.....	420	420	.....	.....	.....	.....
10	Wm. Kipling .....	..do.....	630	630	.....	.....	.....	.....
11	Wm. Dickerson .....	..do.....	340	340	.....	.....	.....	.....
12	Joseph Bunt .....	..do.....	510	510	.....	.....	.....	.....
13	Eli Hillard .....	..do.....	400	400	.....	.....	.....	.....
14	Lewis Atkinson .....	..do.....	210	210	.....	.....	.....	.....
15	O. Baird & Sons .....	..do.....	1,820	1,820	.....	.....	.....	.....
16	Lewis Lewis .....	..do.....	510	510	.....	.....	.....	.....
17	Alla Gorden .....	..do.....	1,220	1,220	.....	.....	.....	.....
18	Chas. Atkinson .....	..do.....	1,620	1,620	.....	.....	.....	.....
19	Wm. Ennis .....	..do.....	330	330	.....	.....	.....	.....
20	Amos Eben .....	..do.....	510	510	.....	.....	.....	.....
21	John Nee .....	..do.....	1,830	1,830	.....	.....	.....	.....
22	G. Smith .....	..do.....	360	360	.....	.....	.....	.....
23	James Whalen .....	..do.....	320	320	.....	.....	.....	.....
24	M. Humer .....	..do.....	1,200	1,200	.....	.....	.....	.....
25	John McCord .....	..do.....	210	210	.....	.....	.....	.....
26	John Wilson .....	..do.....	2,420	2,420	.....	.....	.....	.....
27	Wash Entwistle .....	..do.....	260	260	.....	.....	.....	.....
28	Hall & Steavens .....	..do.....	130	130	.....	.....	.....	.....
29	Anton Lokosik .....	..do.....	250	250	.....	.....	.....	.....
30	Goldsberry & Son .....	..do.....	80	80	.....	.....	.....	.....
31	Hunter, Burney & Stewart .....	..do.....	1,620	1,620	.....	.....	.....	.....
32	Thos. Wilson & Son	Blandensville	1,425	1,425	.....	.....	.....	.....
33	Frank Taylor .....	..do.....	1,320	1,320	.....	.....	.....	.....
34	S. Lamborn	Doddsville	230	230	.....	.....	.....	.....
35	McKintosh & Postal	Industry	780	780	.....	.....	.....	.....
36	J. Gilligan .....	..do.....	630	630	.....	.....	.....	.....
37	Wm. Stoneking .....	..do.....	230	230	.....	.....	.....	.....
38	Wm. Baker .....	..do.....	410	410	.....	.....	.....	.....
39	Myers & Wilkinson	LaHarpe	1,800	1,800	.....	.....	.....	.....
40	John Berry	Macomb	2,100	2,100	.....	.....	.....	.....
41	Wm. Porter & Son .....	..do.....	510	510	.....	.....	.....	.....
42	Simeon Kosch .....	..do.....	230	230	.....	.....	.....	.....
43	Wm. Eddington .....	..do.....	820	820	.....	.....	.....	.....
44	R. Daugherty	Table Grove	350	350	.....	.....	.....	.....
45	F. Whalen	Tennessee	640	640	.....	.....	.....	.....
46	Waddill Bros .....	..do.....	540	540	.....	.....	.....	.....
Totals			35,287	35,287	.....	.....	.....	.....
Totals—47 mines			49,271	47,609	.....	.....	.....	1,662

Mines in 1901, 46.

New mines, 6.

Abandoned mines, 5.

Mines in 1902, 47.

* Fifteen dogs used in this mine hauling coal.

McDonough County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$20,747	55	2	58	12,322	.....	1,662	160	13,984	\$1 00	.....	.....	1
\$ 363	3	.....	3	.....	220	.....	80	220	1 12.5	.....	.....	1
380	3	.....	3	.....	230	.....	120	230	1 12.5	.....	.....	2
1,980	6	.....	6	.....	1,200	.....	180	1,200	1 12.5	.....	.....	3
366	.....	.....	.....	.....	222	.....	70	222	1 12.5	.....	.....	4
1,056	3	.....	3	.....	640	.....	200	640	1 12.5	.....	.....	5
1,848	5	.....	5	.....	1,120	.....	210	1,120	1 12.5	.....	.....	6
2,689	7	.....	7	.....	1,630	.....	230	1,630	1 12.5	.....	.....	7
1,337	4	.....	4	.....	810	.....	240	810	1 12.5	.....	.....	8
693	3	.....	3	.....	420	.....	180	420	1 12.5	.....	.....	9
1,040	2	.....	2	.....	630	.....	110	630	1 12.5	.....	.....	10
561	3	.....	3	.....	340	.....	80	340	1 12.5	.....	.....	11
842	3	.....	3	.....	510	.....	100	510	1 12.5	.....	.....	12
660	3	.....	3	.....	400	.....	90	400	1 12.5	.....	.....	13
347	2	.....	2	.....	210	.....	80	210	1 12.5	.....	.....	14
3,003	6	.....	6	.....	1,820	.....	220	1,820	1 12.5	.....	.....	15
842	3	.....	3	.....	510	.....	180	510	1 12.5	.....	.....	16
2,013	3	.....	3	.....	1,220	.....	200	1,220	1 12.5	.....	.....	17
2,673	6	.....	6	.....	1,620	.....	220	1,620	1 12.5	.....	.....	18
544	2	.....	2	.....	330	.....	140	330	1 12.5	.....	.....	19
842	2	.....	2	.....	510	.....	130	510	1 12.5	.....	.....	20
3,020	7	.....	7	.....	1,830	.....	210	1,830	1 12.5	.....	.....	21
594	2	.....	2	.....	360	.....	90	360	1 12.5	.....	.....	22
528	2	.....	2	.....	320	.....	80	320	1 12.5	.....	.....	23
1,980	5	.....	5	.....	1,200	.....	110	1,200	1 12.5	.....	.....	24
347	1	.....	1	.....	210	.....	115	210	1 12.5	.....	.....	25
3,993	6	.....	6	.....	2,420	.....	210	2,420	1 12.5	.....	.....	26
429	1	.....	1	.....	260	.....	170	260	1 12.5	.....	.....	27
215	4	.....	4	.....	130	.....	80	130	1 12.5	.....	.....	28
413	1	.....	1	.....	250	.....	200	250	1 12.5	.....	.....	29
132	2	.....	2	.....	80	.....	60	80	1 12.5	.....	.....	30
2,673	9	.....	9	.....	1,620	.....	180	1,620	1 12.5	.....	.....	31
2,850	4	.....	4	.....	1,425	.....	225	1,425	1 25	.....	.....	32
2,310	5	.....	5	.....	1,320	.....	200	1,320	1 12.5	.....	.....	33
403	2	.....	2	.....	230	.....	110	230	1 12.5	.....	.....	34
1,365	3	.....	3	.....	780	.....	210	780	1 12.5	.....	.....	35
1,102	4	.....	4	.....	630	.....	200	630	1 12.5	.....	.....	36
402	1	.....	1	.....	230	.....	125	230	1 12.5	.....	.....	37
718	2	.....	2	.....	410	.....	130	410	1 12.5	.....	.....	38
3,600	5	1	6	.....	1,800	.....	210	1,800	1 12.5	.....	.....	39
3,675	7	.....	7	.....	2,100	.....	240	2,100	1 12.5	.....	.....	40
893	2	.....	2	.....	510	.....	160	510	1 12.5	.....	.....	41
402	2	.....	2	.....	230	.....	120	230	1 12.5	.....	.....	42
1,435	4	.....	4	.....	820	.....	180	820	1 12.5	.....	.....	43
613	3	.....	3	.....	350	.....	120	350	1 12.5	.....	.....	44
1,120	3	.....	3	.....	640	.....	160	640	1 12.5	.....	.....	45
945	2	.....	2	.....	540	.....	180	540	1 12.5	.....	.....	46
\$60,236	161	1	162	.....	35,287	.....	155	35,287	\$1 12.5	.....	.....	.....
\$80,983	216	4	220	12,322	35,287	1,662	.....	49,271	.....	.....	.....	.....

Menard County—Third District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Wabash Coal Co., 2.....	Athens	119,712	32,000	67,000	.....	7,100	13,612
2	Athens Mining Co.....	do	85,240	47,477	20,000	.....	3,088	14,675
3	Greenview Coal & Mining Co.....	Greenview	137,243	105,129	.....	.....	3,849	28,265
4	South Mountain Coal Co., 1..	Petersburg	38,948	6,319	27,963	.....	939	3,727
5	Petersburg Mining Co.....	do	2,296	.....	2,296	.....	.....	.....
6	Junction Co-operative C. Co. .	do	8,260	8,260	.....	.....	.....	.....
7	William Denton	do	4,800	4,800	.....	.....	.....	.....
8	Tallula Coal Co.....	Tallula	34,184	8,054	20,967	.....	355	4,808
Totals			430,683	212,039	138,226	.....	15,331	65,087
LOCAL MINES.								
1	J. Bryant.....	Loyd	120	120	.....	.....	.....	.....
2	Joseph Mullegraham.....	Petersburg	1,825	1,825	.....	.....	.....	.....
3	Charles O'Neill.....	do	1,920	1,920	.....	.....	.....	.....
4	Wm. Parkin & Son.....	Sweetwater	3,570	3,570	.....	.....	.....	.....
5	J. E. Duncan.....	Tice.....	650	650	.....	.....	.....	.....
Totals			8,085	8,085	.....	.....	.....	.....
Totals—13 mines.....			438,768	220,124	138,226	.....	15,331	65,087

Mines in 1901, 12.

New mines, 3.

Abandoned mines, 2.

Mines in 1902, 13.

Menard County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$10,627	100	49	149	113,210	2,702	3,800	273	119,712	\$0 49.7	4,765	.....	.....	1
80,074	69	85	104	78,305	2,699	4,236	234	72,851	49.7	3,282	.....	.....	2
130,621	110	45	155	123,323	3,976	9,944	240	137,243	49.7	6,000	.....	.....	3
32,934	36	14	50	34,514	4,034	400	219	38,943	49.7	1,608	.....	.....	4
2,009	17	5	22	1,200	600	496	100	2,296	49.7	81	.....	.....	5
10,325	16	4	20	6,000	2,260	.....	160	8,260	49.7	310	1	.....	6
7,200	4	4	8	1,650	3,150	.....	220	4,800	60	210	.....	.....	7
31,336	30	15	45	30,102	3,358	724	250	34,184	49.7	1,630	.....	.....	8
<u>\$400,769</u>	<u>382</u>	<u>171</u>	<u>553</u>	<u>388,304</u>	<u>22,779</u>	<u>19,600</u>	<u>212</u>	<u>418,294</u>	<u>\$0 49.7</u>	<u>17,886</u>	<u>1</u>	<u>2</u>	
\$ 180	2	1	3	.....	120	.....	40	120	\$0 60	6	.....	.....	1
3,194	2	4	6	.....	1,825	.....	240	1,825	60	125	.....	.....	2
3,168	2	2	4	.....	1,920	.....	200	1,920	60	130	.....	.....	3
6,248	4	5	9	.....	3,570	.....	170	3,570	70	182	.....	.....	4
812	3	1	4	.....	650	.....	110	650	60	20	.....	.....	5
<u>\$13,602</u>	<u>13</u>	<u>13</u>	<u>26</u>	<u>.....</u>	<u>8,085</u>	<u>.....</u>	<u>152</u>	<u>8,085</u>	<u>\$0 65.6</u>	<u>463</u>	<u>.....</u>	<u>.....</u>	<u>1</u>
<u>\$414,371</u>	<u>395</u>	<u>184</u>	<u>579</u>	<u>388,304</u>	<u>30,864</u>	<u>19,600</u>	<u>.....</u>	<u>426,379</u>	<u>.....</u>	<u>18,349</u>	<u>1</u>	<u>3</u>	

Peoria County—Third District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Newsam Bros.....	Kingston	100,360	64,230	.....	.....	20,072	16,058
2	Newsam Bros.....	Wolcott.....	39,696	25,405	.....	.....	7,939	6,352
3	Newsam Bros.....	Hanna City...	26,414	17,435	.....	.....	5,283	3,698
4	Newsam Bros.....	Starr.....	24,068	15,885	.....	.....	4,814	3,369
5	Scholl Bros., 3.....	Peoria	90,000	25,000	40,000	13,000	.....	12,000
6	Walschlag Co-operative C.Co	do	67,257	23,967	31,790	.....	.....	11,500
7	Collier Co-operative Coal Co.	Bartonville...	50,000	.....	50,000	.....	.....	.....
8	P. Grant & Son, Excelsior..	Peoria	42,640	31,220	.....	.....	11,000	420
9	Howarth & Taylor	Edwards	40,984	32,177	.....	.....	.....	8,807
10	Vicary Bros.....	Peoria	33,240	23,268	.....	.....	9,972	.....
11	Royster & Zeigler, Empire..	do	29,535	20,550	1,320	140	3,175	4,350
12	C. B. Kramm & Bro.....	Edwards	27,954	20,698	.....	.....	.....	7,256
13	James Walker	Mapleton	22,322	7,972	11,161	.....	.....	3,189
14	W. E. Foley	do	22,080	16,535	.....	.....	5,425	120
15	Scholl & Son	Bartonville...	21,000	20,000	.....	.....	.....	1,000
16	S. Reents & Son.....	Kramm	17,260	10,000	.....	.....	.....	7,260
17	German Coal Co.....	Mapleton	17,153	.....	17,153	.....	.....	.....
18	I. Wantling & Son, Bluefly...	Pottstown	10,240	10,000	.....	.....	.....	240
19	Third Vein Coal Co	Orch'd Mines	7,204	5,775	.....	.....	379	1,050
20	Cusack & Edwards.....	Edwards	5,400	5,400	.....	.....	.....	.....
21	S. Miller	Mapleton	3,360	3,360	.....	.....	.....	.....
22	Elmwood Coal Co	Elmwood	1,000	1,000	.....	.....	.....	.....
Totals			699,167	379,877	151,424	13,140	68,059	86,667

Peoria County—Third District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$92,732	94	37	131	96,360	2,000	2,000	205	100,360	\$0 56	4,575	.....	.....	1
36,679	41	20	61	38,150	346	1,200	175	39,696	56	2,084	.....	.....	2
24,990	32	14	46	25,014	400	1,000	160	26,414	56	1,630	.....	.....	3
22,769	21	13	34	22,968	100	1,000	167	24,068	56	1,113	.....	.....	4
90,250	85	24	109	88,777	150	1,073	275	90,000	56	4,936	.....	.....	5
62,020	39	12	51	66,508	83	666	230	67,257	56	4,416	.....	.....	6
50,000	39	8	35	49,400	.....	600	260	50,000	56	2,500	.....	.....	7
45,709	36	12	48	42,640	.....	.....	220	42,640	56	1,620	.....	.....	8
42,211	40	18	58	40,984	.....	.....	211	40,984	56	2,091	.....	.....	9
37,063	30	11	41	23,268	9,972	.....	210	33,240	56	1,120	.....	.....	10
29,685	35	14	49	24,935	.....	600	140	29,535	56	1,492	.....	.....	11
27,686	35	7	42	27,698	.....	256	219	27,954	56	1,648	.....	.....	12
21,764	24	8	32	22,200	.....	122	240	22,322	56	946	.....	.....	13
23,405	20	9	29	21,960	.....	120	240	22,080	56	1,226	.....	.....	14
25,600	20	4	24	20,000	.....	1,000	275	21,000	56	936	.....	.....	15
14,678	20	7	27	17,260	.....	.....	200	17,260	56	620	.....	.....	16
17,153	18	5	23	17,153	.....	.....	240	17,153	56	550	.....	.....	17
12,620	15	7	22	10,240	.....	.....	220	10,240	76	512	.....	.....	18
9,209	16	10	26	4,825	1,329	1,050	240	7,204	1 00	50	.....	.....	19
6,750	7	2	9	5,400	.....	.....	200	5,400	56	275	.....	.....	20
4,200	5	2	7	3,360	.....	.....	290	3,360	80	157	.....	.....	21
1,500	20	6	28	1,000	.....	.....	70	1,000	76	15	.....	.....	22
\$698,673	683	252	935	674,100	14,380	10,687	213	699,167	\$0 57	34,511	2	4	

Peoria County—Third District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	R. Clarkson.....	Alta.....	310	310				
2	George Rattleback.....	Brimfield.....	1,220	1,220				
3	George Mulvaney.....	do.....	960	960				
4	H. Durant.....	do.....	1,050	1,050				
5	White Coal Co.....	Bartonville.....	3,044	3,044				
6	Treasure Coal Co.....	do.....	7,837	5,000	2,837			
7	Winters Coal Co.....	do.....	15,500		15,500			
8	Ball Coal Co.....	do.....	6,625	4,767	1,858			505
9	George Keller.....	do.....	5,260	5,260				
10	S. Hurst.....	do.....	4,220	4,220				
11	Oscar Graves.....	Duncan.....	1,100	1,100				
12	Chas. Carroll.....	do.....	920	920				
13	William Clarkson.....	Edwards.....	360	360				
14	E. C. Snyder.....	do.....	250	250				
15	Charles Kingsley.....	do.....	300	300				
16	Higgins & Nebbellin.....	Elmwood.....	785	785				
17	Daniel Sanders.....	Glasford.....	800		800			
18	Wm. Johnson.....	Hanna City.....	460	460				
19	Jefford & Bro.....	Kingston.....	4,500	4,500				
20	W. H. Poole.....	Kickapoo.....	620	620				
21	Charles Abys.....	Laura.....	340	340				
22	Charles Hevins.....	do.....	260	260				
23	Ogden Hays.....	Mapleton.....	520	520				
24	D. B. Roberts.....	do.....	600	600				
25	H. Goodwin.....	do.....	1,800	1,800				
26	Hamilton Bros.....	do.....	958	958				
27	C. Berry & Son.....	Monica.....	850	850				
28	Cluskey & Simons.....	do.....	750	750				
29	Wm. Clark.....	Oak Hill.....	310	310				
30	Wolford & Cling.....	do.....	520	520				
31	Martin & Lane.....	Peoria.....	2,120	2,120				
32	Adams Coal Co.....	do.....	3,640	3,640				
33	John Birdois.....	do.....	3,700	3,700				
34	Yost & Rumple.....	do.....	1,620	1,620				
35	Fred Martin.....	do.....	1,000	1,000				
36	Schneider & Ennis.....	do.....	3,100	3,100				
37	F. P. Schmidt & Sons.....	do.....	10,872	7,624				3,248
38	Snedden & Hibbard.....	do.....	8,200	6,560				1,640
39	Johnson & Lane.....	do.....	850	850				
40	James Fash.....	do.....	520	520				
41	Mahn Bros.....	do.....	4,620	4,620				
42	Burdett & Wantling.....	Pottstown.....	2,296	2,296				
43	Joseph Marie.....	do.....	420	420				
44	John Cargetter.....	do.....	316	242				74
45	Lawrence Rigby.....	Princeville.....	5,260	5,260				
46	Robert Taylor & Son.....	do.....	1,200	1,200				
47	Wm. Black.....	Smithville.....	410	410				
48	Wm. Kelley.....	Brimfield.....	2,110	2,110				
49	S. A. Moore.....	do.....	560	560				
50	Standard Coal Co.....	Peoria.....	9,260	9,260				
Totals.....			125,093	99,136	20,490			3,248
Totals—72 mines.....			824,260	479,013	171,914	13,140	68,059	92,134

Mines in 1901, 63.

New mines, 8.

Old mine (not reported in 1901) 1.

Mines in 1902, 72.

Peoria County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
													Number.
\$ 387	1	.....	1	.....	310	.....	160	310	\$0 80	.....	.....	1
1,830	4	1	5	.....	1,220	.....	200	1,220	75	.....	.....	12
1,440	3	1	4	.....	960	.....	160	960	75	.....	.....	3
1,313	3	1	4	.....	1,050	.....	220	1,050	75	.....	.....	4
3,805	5	1	6	.....	3,044	.....	220	3,044	87 ¹ / ₂	195	.....	5
10,796	7	4	11	.....	7,837	.....	232	7,837	56	532	.....	6
15,500	16	3	19	.....	15,500	.....	287	15,500	56	1,000	.....	7
8,266	6	2	8	.....	6,625	.....	217	6,625	75	402	.....	8
7,890	6	2	8	.....	5,260	.....	255	5,260	87 ¹ / ₂	307	.....	9
6,330	5	1	6	.....	4,220	.....	210	4,220	75	200	.....	10
1,850	5	1	6	.....	1,100	.....	280	1,100	75	.....	.....	11
1,380	4	1	5	.....	920	.....	200	920	75	.....	.....	12
450	2	.....	2	.....	360	.....	110	360	80	12	.....	13
313	1	.....	1	.....	250	.....	100	250	80	10	.....	14
375	2	.....	2	.....	300	.....	120	300	80	13	.....	15
1,178	7	1	8	.....	785	.....	150	785	75	.....	.....	16
800	2	1	3	.....	800	.....	130	800	56	52	.....	17
575	1	.....	1	.....	460	.....	100	460	80	10	.....	18
5,625	7	4	11	.....	4,500	.....	102	4,500	56	116	.....	19
930	3	1	4	.....	620	.....	210	620	80	.....	.....	20
510	2	.....	2	.....	340	.....	120	340	80	.....	.....	21
390	2	.....	2	.....	260	.....	110	260	80	.....	.....	22
650	2	.....	2	.....	520	.....	130	520	80	18	.....	23
750	3	.....	3	.....	600	.....	125	600	75	25	.....	24
2,250	5	1	6	.....	1,800	.....	200	1,800	80	60	.....	25
1,197	2	2	4	.....	958	.....	210	958	75	20	.....	26
1,063	2	.....	2	.....	850	.....	230	850	75	.....	.....	27
937	2	1	3	.....	750	.....	225	750	75	50	.....	28
465	2	.....	2	.....	310	.....	102	310	80	10	.....	29
780	2	.....	2	.....	520	.....	120	520	80	15	.....	30
2,650	5	.....	5	.....	2,120	.....	240	2,120	80	70	.....	31
4,550	6	1	7	.....	3,640	.....	210	3,640	80	100	.....	32
4,625	6	1	7	.....	3,790	.....	200	3,790	80	101	.....	33
2,025	4	.....	4	.....	1,620	.....	300	1,620	75	51	.....	34
1,250	5	.....	5	.....	1,000	.....	200	1,000	75	28	.....	35
3,875	6	1	7	3,100	220	3,100	75	96	1	36
10,561	18	6	24	.....	10,872	.....	232	10,872	56	495	.....	37
8,610	15	3	18	.....	8,200	.....	200	8,200	56	250	.....	38
1,063	3	.....	3	.....	850	.....	110	850	80	22	.....	39
650	2	.....	2	.....	520	.....	120	520	80	15	.....	40
5,775	7	1	8	.....	4,620	.....	220	4,620	80	151	.....	41
2,857	3	1	4	.....	2,286	.....	225	2,286	87 ¹ / ₂	125	.....	42
525	2	.....	2	.....	420	.....	130	420	87 ¹ / ₂	10	.....	43
355	2	1	3	.....	316	.....	110	316	56	22	.....	44
7,890	10	1	11	.....	5,260	.....	300	5,260	87	150	.....	45
1,560	3	1	4	.....	1,200	.....	100	1,200	75	60	.....	46
513	2	.....	2	.....	410	.....	160	410	80	.....	.....	47
3,165	6	1	7	.....	2,110	.....	210	2,110	75	.....	.....	48
840	3	1	4	.....	560	.....	160	560	75	.....	.....	49
11,575	10	2	12	9,260	220	9,260	56	320	1	50
\$154,739	232	50	282	.....	125,093	.....	182	125,093	\$0 68.7	5,113	.....	.....
\$853,412	915	302	1,217	.....	674,100	.....	139,473	824,260	.....	39,624	3	4

Schuyler County—Third District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	William Kerr	Rushville	3,900	3,900	.....	.....	.....	.....
2	William Cummings .....	..do	2,820	2,820	.....	.....	.....	.....
3	D. Lawler .....	..do	1,000	1,000	.....	.....	.....	.....
4	George Montooth.....	Ray	500	500	.....	.....	.....	.....
5	Perkins & Simpson .....	..do	350	350	.....	.....	.....	.....
6	Rufus Porter .....	..do	900	900	.....	.....	.....	.....
7	Wm. Harris .....	..do	850	850	.....	.....	.....	.....
8	Afner Weimer .....	..do	960	960	.....	.....	.....	.....
9	Wm. Cagle.....	Frederick	210	210	.....	.....	.....	.....
10	A. Wetmore.....	..do	750	750	.....	.....	.....	.....
11	J. Hamilton .....	..do	450	450	.....	.....	.....	.....
12	Orrie Alexander.....	Huntsville	500	500	.....	.....	.....	.....
13	A. Nasley .....	..do	700	700	.....	.....	.....	.....
14	J. C. West.....	..do	310	310	.....	.....	.....	.....
15	George Edwards .....	..do	220	220	.....	.....	.....	.....
16	J. Brackofen.....	Littleton	400	400	.....	.....	.....	.....
17	John Cagle .....	..do	560	560	.....	.....	.....	.....
18	R. Strong	Pleasant View	1,410	1,410	.....	.....	.....	.....
19	Fred Croxton.....	..do	900	900	.....	.....	.....	.....
20	Velpo Roosa .....	..do	550	550	.....	.....	.....	.....
Totals			18,240	18,240	.....	.....	.....	.....

Mines in 1901, 18.

New mines, 2.

Mines in 1902, 20.

Schuyler County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other em- ployés.	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.	
\$1,875	2	1	8		3,900		163	3,900	\$0 75	100			1
3,525	5	1	6		2,820	20	200	2,820	75	60			2
1,250	4	1	5		1,000		160	1,000	75	31			3
750	3		3		500		140	500	1 00	16			4
525	3		3		350		90	350	1 00	12			5
1,350	4	1	5		900		200	900	1 00	30			6
1,275	4	1	5		850		210	850	1 00	28			7
1,440	4	1	5		960		200	960	1 00	11			8
315	2		2		210		80	210	1 00	7			9
1,125	3		3		750		200	750	1 00	22			10
675	3		3		450		85	450	1 00	16			11
750	3		3		500		160	500	1 00	16			12
1,050	4	1	5		700		180	700	1 00	20			13
465	2		2		310		160	310	1 00	12			14
330	2		2		220		90	220	1 00	6			15
600	3		3		400		205	400	1 00	13			16
840	3		3		560		150	560	1 00	16			17
1,763	4	1	5		1,410		230	1,410	75	40			18
1,125	4	1	5		900		200	900	75	30			19
687	3		3		550		100	550	75	14			20
\$24,715	71	9	80		18,220	20	163	18,240	\$0 85.5	500			

Tazewell County—Third District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	East Peoria Coal Co.....	East Peoria ..	17,321	9,902	2,732	.....	.....	4,687
2	Progressive Coal Co .....	..do	22,000	12,000	6,000	.....	.....	4,000
3	Ubben Coal Co	Pekin	20,000	4,000	14,500	.....	.....	1,500
4	Edward Little, Hilliard 2....	Peoria	19,750	.....	19,750	.....	.....	.....
5	Phoenix Coal Co., Hilliard 1..	..do	31,500	.....	31,500	.....	.....	.....
Totals			110,571	25,902	74,482	.....	.....	10,187
LOCAL MINES.								
1	A. G. Cummings	East Peoria ..	16,070	12,545	.....	.....	.....	3,525
2	G. Gablehauser & Son .....	..do	2,965	2,765	.....	.....	.....	200
3	Manhattan Coal Co.....	..do	4,300	4,300	.....	.....	.....	.....
4	Backing Bros.....	..do	6,520	6,520	.....	.....	.....	.....
5	Wm. F. Doering .....	..do	5,132	4,909	.....	.....	.....	223
6	Wm. Cruickshanks & Son....	..do	9,037	6,778	.....	.....	.....	2,259
7	Grant Bros.....	Pekin	13,240	10,240	.....	.....	.....	3,000
8	Bohlender Bros .....	..do	4,500	4,500	.....	.....	.....	.....
9	King & Grooswieler.....	..do	12,500	7,000	3,000	.....	.....	2,500
Totals			74,264	59,557	3,000	.....	.....	8,784
Totals—14 mines.....			184,835	85,459	77,482	.....	.....	21,894

Mines in 1901, 15.

Abandoned mine, 1.

Mines in 1902, 14.

* This price includes horseback.

Tazewell County—Third District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$16,516	27	9	36	9,902	6,738	681	203	17,321	\$0 56	796	.....	.....	1
23,050	25	8	36	8,000	13,700	300	200	22,000	56	1,000	.....	.....	2
19,875	60	11	71	20,000	.....	.....	230	20,000	*60	850	.....	.....	3
18,763	40	11	51	19,330	.....	360	160	19,750	56	977	.....	.....	4
29,925	55	12	67	31,000	.....	500	200	31,500	56	1,640	.....	.....	5
<u>\$108,129</u>	<u>210</u>	<u>51</u>	<u>261</u>	<u>88,292</u>	<u>20,438</u>	<u>1,841</u>	<u>199</u>	<u>110,571</u>	<u>\$0 56.7</u>	<u>5,263</u>	<u>.....</u>	<u>.....</u>	
\$18,885	19	10	29	.....	16,070	.....	200	16,070	\$0 56	643	2	.....	1
3,852	4	4	8	.....	2,765	200	183	2,965	56	150	.....	.....	2
5,375	4	2	6	.....	4,300	.....	210	4,300	56	210	.....	.....	3
8,150	8	4	12	.....	6,520	.....	208	6,520	56	330	.....	.....	4
7,419	7	2	9	.....	4,509	223	215	5,132	56	311	.....	.....	5
10,732	13	4	17	.....	9,037	.....	210	9,037	56	351	.....	.....	6
16,860	14	6	20	.....	13,240	.....	220	13,240	71	460	.....	.....	7
6,075	5	2	7	.....	4,500	.....	200	4,500	60	187	.....	.....	8
14,425	6	.....	6	.....	10,000	2,500	230	12,500	71	570	.....	.....	9
<u>\$91,773</u>	<u>80</u>	<u>34</u>	<u>114</u>	<u>.....</u>	<u>71,341</u>	<u>2,923</u>	<u>187.6</u>	<u>74,264</u>	<u>\$0 62.6</u>	<u>3,212</u>	<u>2</u>	<u>.....</u>	
<u>\$199,902</u>	<u>290</u>	<u>86</u>	<u>376</u>	<u>88,292</u>	<u>91,779</u>	<u>4,764</u>	<u>.....</u>	<u>184,835</u>	<u>.....</u>	<u>8,475</u>	<u>2</u>	<u>.....</u>	

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Fulton	19	806, 274	518, 296	54, 084	21, 619	48, 713	98, 800	64, 762	\$341, 562
Hancock	1	3, 700	3, 700	.....	.....	.....	.....	.....	5, 550
McDonough ..	1	13, 984	12, 322	.....	.....	.....	.....	1, 662	20, 747
Menard	8	430, 683	212, 039	138, 226	.....	15, 331	54, 019	11, 068	400, 769
Peoria	22	699, 167	379, 877	151, 424	13, 140	68, 059	80, 126	6, 541	698, 673
Tazewell	5	110, 571	25, 902	74, 482	.....	.....	10, 187	.....	108, 129
Totals and averages	56	2, 064, 379	1, 152, 136	418, 216	34, 759	132, 103	243, 132	84, 033	\$2, 075, 430

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Cass	2	2, 100	1, 900	.....	.....	.....	.....	200	\$ 3, 725
Fulton	48	83, 405	76, 365	6, 685	5	100	.....	250	104, 322
Hancock	5	2, 610	2, 610	.....	.....	.....	.....	.....	3, 915
McDonough ..	46	35, 287	35, 287	.....	.....	.....	.....	.....	60, 236
Menard	5	8, 085	8, 085	.....	.....	.....	.....	.....	13, 602
Peoria	50	125, 093	99, 136	20, 490	.....	.....	3, 248	2, 219	154, 739
Schuyler	20	18, 240	18, 240	.....	.....	.....	.....	.....	24, 715
Tazewell	9	74, 264	59, 557	3, 000	.....	.....	8, 784	2, 923	91, 773
Totals and averages	185	349, 084	301, 180	30, 175	5	100	12, 032	5, 592	\$457, 027
Totals district—all mines..	.....	2, 413, 463	1, 453, 316	448, 391	34, 764	132, 203	255, 164	89, 625	\$2, 532, 457

Whole number of mines reported for 1901, 225.

Number of new mines opened during the year, 25.

Number of mines abandoned during the year, 9.

Whole number of mines reported for 1902, 241.

Third District—1902—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TOTAL MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
1,086	468	1,554	760,681	10,554	13,731	21,308	204	806,274	.....	\$0.56	.....	33,049	..	5
10	1	11	3,700	.....	.....	.....	280	3,700	.....	1.00	.....	.....	..	..
56	3	58	12,322	.....	.....	1,662	160	13,984	.....	1.00	.....	.....	..	..
382	171	553	387,275	1,029	22,779	19,600	212	418,294	12,389	.497	\$0.45	17,886	1	2
683	252	935	674,100	.....	14,380	10,687	213	699,167	.....	.57	.....	34,511	2	4
210	51	261	88,292	.....	20,438	1,841	199	110,571	.....	.567	.....	5,263	..	..
2,426	946	3,372	1,926,370	11,583	71,328	55,098	209	2,051,990	12,389	\$0.555	\$0.45	90,709	3	11

Third District—1902—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TOTAL MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
5	2	8	.....	.....	2,100	.....	150	2,100	.....	\$ .87 ¹ / ₂	.....	100	..	..
176	30	206	.....	.....	83,155	250	177	83,405	.....	.80	.....	2,832	..	..
13	4	17	.....	.....	2,610	.....	177	2,610	.....	1.00	.....	.....	..	..
161	1	162	.....	.....	35,287	.....	155	35,287	.....	1.25	.....	.....	..	..
13	13	26	.....	.....	8,085	.....	152	8,085	.....	.656	.....	463	..	1
232	50	282	.....	.....	125,093	.....	182	125,093	.....	.687	.....	5,113	1	..
71	9	80	.....	.....	18,220	20	163	18,240	.....	.855	.....	500	..	..
80	35	115	.....	.....	71,341	2,923	208	74,264	.....	.626	.....	3,212	2	..
751	145	896	.....	.....	345,891	3,193	172	349,084	.....	\$ .77	.....	12,220	3	1
3,177	1,091	4,268	1,926,370	11,583	417,219	58,291	180.5	2,401,074	12,389	.....	.....	102,929	6	12

FOURTH INSPECTION DISTRICT—1902.

NINETEENTH ANNUAL REPORT.

Counties—Christian, Edgar, Logan, Macon, McLean, Shelby, Vermilion,
Woodford.

THOMAS WEEKS, *Inspector*, Bloomington.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Ill.

Sir—In compliance with statutes of the State defining the duties of the State inspectors of coal mines, I have the honor to herewith submit to you the nineteenth annual report of the coal mines in the Fourth Inspection district. The tabular statements in this report show the number of mines; number of new and abandoned mines; number of shipping and local mines; the total production of all grades; the average value of the different grades at the mine and the aggregate value of the total product; the number of miners and other employes, above and below the ground; the disposition of the output; the average number of days worked; the number of tons mined by hand and the number of tons mined by machine; the price paid per ton for hand and machine mining; the number of mines using machines and the number of machines in use; the number of kegs of powder used; the number of horses and mules used above ground and below ground; the number of steam boilers in use at the mines; the number of fatal and non-fatal casualties; the number of wives made widows and the number of children left fatherless by the fatal accidents.

The following is a summary of the different items contained in the report:

Number of mines.....	84
Number of new mines.....	13
Number of abandoned mines.....	9
Number of shipping mines.....	34
Number of local mines.....	50
Tons of all grades.....	3,939,564
Tons of lump.....	1,099,715
Tons of mine run.....	2,183,252
Tons of egg.....	12,916
Tons of nut.....	128,249
Tons of pea or screenings.....	429,739
Tons of waste.....	85,993
Average value per ton of lump at the mine.....	\$1.302
Average value per ton of mine run at the mine.....	0.916
Average value per ton of egg at the mine.....	1.080

Average value per ton of nut at the mine.....	0.965
Average value per ton of pea or screening at the mine.....	0.472
Average value per ton of waste at the mine.....	0.156
Aggregate value of total product.....	\$3,786,009
Number of miners.....	3,877
Number of others underground.....	981
Number of boys underground.....	181
Number above ground.....	636
Total number of employes.....	5,679
Tons loaded on cars for shipment.....	3,233,183
Tons supplied to locomotives.....	145,842
Tons sold to local trade.....	397,277
Tons consumed and wasted at mines.....	163,562
Average number of days in operation.....	217
Tons mined by hand.....	3,774,810
Tons mined by machine.....	165,054
Price paid for hand mining per ton.....	\$0.520
Price paid for machine mining per ton.....	0.404
Number of mines using machines.....	3
Number of machines in use.....	11
Number of kegs of powder used.....	81,866
Number of steam boilers, horizontal.....	135
Number of steam boilers, upright.....	7
Number of mules under ground.....	422
Number of mules above ground.....	79
Number of horses above ground.....	19
Number of fatal casualties.....	20
Number of non-fatal casualties.....	68
Number of wives made widows.....	15
Number of children left fatherless.....	41

New mines.—In Vermilion county the Kellyville Coal Co. has sunk two new mines, one of which, No. 4, is already equipped and working; the company is now sinking the escape shaft for this mine. The other mine, No. 5, is sunk to the coal and will be equipped for work in the near future.

The Mauck Brothers have opened a new drift mine for local trade about four miles north of Danville.

The Oakwood Coal Co., of Oakwood, has opened up a new local mine at that place.

The Latham Coal Co., of Springfield, Ill., has completed the sinking of a new mine at Lincoln, Logan county. This mine is equipped in first class style with all modern improvements, and will be a large producer in the future; the company is now engaged in sinking an escapement shaft.

Z. B. Stretch has sunk a new mine at Shelbyville, Shelby county, intended for the local trade.

Abandoned mines.—The East Colfax Coal Mining company, of Colfax, McLean county, and the Minonk Coal Mining and Tile Co., of Minonk, Woodford county, have abandoned their mines during the past year. Z. B. Stretch has abandoned his old mine at Shelbyville. In Vermilion county there have been several small local mines abandoned.

Prospective mines.—The Moultrie County Coal Co., of Lovington, Moultrie county, composed of local capitalists, has commenced sinking a shaft to an eight-foot ten-inch seam, which the company expects to reach at a depth of 920 feet from the surface.

A company composed of local capitalists of Towerhill and Shelbyville have let the contract for the sinking of a shaft at Towerhill, Shelby county. The company bored to the coal, striking the Pana No. 6 seam at about the same depth.

Improvements.—The Christian County Coal Co., Taylorville, Christian county, has completed its escapement shaft. The Penwell Coal Co., of Pana, has replaced six of its old boilers with two new Springfield boilers, and has raised and repaired its screen house. The Colfax Coal Co. of Colfax, McLean county, is reopening the north side of its mine which has been closed for several years. This company recently bought out the Colfax Coal and Mining Co., and is expending considerable money in improving the property.

The Davis Coal Co. of Chenoa, McLean county, has sold its mine to a Chicago company. The new company intends to develop the property into a paying mine.

There have been other small improvements at the different mines in the district which have bettered the conditions.

Fires.—Sunday night, Dec. 16, 1901, the boiler house, engine house and hoisting drum of the East Colfax Coal Co.'s mine at Colfax was destroyed by fire, caused by the explosion of an oil lamp. The Anglo-American Coal Co. had leased and had taken possession of this mine, expecting to operate it after making the repairs made necessary by the fire. The company however failed to get the insurance money, as the old company claimed and collected it; as a consequence the mine was abandoned.

Feb. 18, 1902, the fan house at the Moweaqua Coal Mining and Manufacturing Co.'s mine was partially destroyed by fire; the damage was small and was repaired in a few days.

Fatal Accidents.—July 15, 1901, W. B. Foster, miner, age 49 years, was killed by a fall of coal at the face of his room in the Springside Coal Co.'s mine, Pana, Christian county; he had fired a rib shot which left part of the coal standing; after loading the loose coal he started to mine out the part that was left standing; when he had mined to the powder break the coal rolled over on him, killing him instantly; he leaves a widow and five children.

July 22, 1901, Arthur Langdon, miner, age 17 years, was killed by a fall of coal at the face of his room, where he worked with his father and brother, in the Taylorville Coal Co.'s mine at Taylorville, Christian county. He was undermining and while breaking down the front of the coal for the purpose of cutting deeper, a lump of coal weighing about 300 pounds fell, breaking his neck and killing him instantly.

July 23, 1901, William Engle, driver, age 24 years, was instantly killed by being crushed under a loaded pit car in the Kellyville Coal Co.'s mine No. 3, Westville, Vermilion county. He leaves a widow and one child.

Aug. 12, 1901, John Michena, miner, age 33 years, was instantly killed by a fall of rock in the Brookside Coal Co.'s No. 2 mine, Grape Creek, Vermilion county; he leaves a widow and three children.

Aug. 13, 1901, O. Stevens, driver, age 28 years, employed at the Himrod Coal Co.'s Himrod mine, Grape Creek, Vermilion county, was fatally injured by being crushed between a pit car and the coal rib. He died five days after the accident, leaving a widow.

Aug. 17, 1901, John Cairns, superintendent of the Moweaqua Coal Mining & Manufacturing Co., Moweaqua, Shelby county, was fatally injured by

being caught between the breeching of some boilers which he was preparing to unload from a railroad car. He was standing on the car between the two breechings; the car on which he was standing began to move and was not stopped owing to the failure of the brake to work properly; the breeching struck a large timber which jammed them together, catching Mr. Cairn's neck, almost severing the head from the body. He died from his injuries an hour and a half after the accident, leaving a widow and one child.

Aug. 26, 1901, Thomas Jones, miner, age 35 years, single, Joe Bria, miner, age 21 years, single, Joe Baitto, miner, age 48 years, wife and seven children in Italy, and Barni Calveth, miner, age 31 years, wife and one child, were instantly killed by falling down the shaft of the Chenoa Coal Co., Chenoa, McLean county. The morning of the accident, about seven o'clock, these men entered the cage to descend into the mine; as the cage was being lowered it caught on the stops, which prevented its descent; this caused some slack rope to go to the cage; before the engineer could reverse his engine and take up the slack the cage slipped from the stops; the weight breaking the rope, the cage and men fell to the bottom of the shaft killing the four men instantly.

Sept. 11, 1901, James W. Elkins, miner, age 39 years, single, was killed by a fall of slate in Bonnets' mine, Oakwood, Vermilion county.

October 26, 1901, Frederick Veitrich, miner, age 70 years, was killed in the Pawnee mine of the Himrod Coal Co. at Westville, Vermilion county. Just how he met his death will probably never be known; he was engaged in picking coal off the roadways and was in the mine at night by himself and was found dead in the morning. It was supposed that he fell in front of a car and that it passed over him.

Oct. 31, 1901, Arthur Swisher, miner, age 18 years, was injured by a fall of rock at the Economy Coal & Mining Co.'s mine, Danville, Vermilion county. He was engaged in taking out timbers for the purpose of widening an entry when a rock fell on him breaking his back, from the effects of which he died July 10, 1902.

Nov. 23, 1901, Michael Poviloinas, miner, age 28 years, was injured by a fall of rock in the Pawnee mine of the Himrod Coal Co., Westville, Vermilion county, from the effects of which he died four days afterwards; he leaves a widow and two children.

Dec. 20, 1901, Rhinehardt Franke, miner, age 41 years, was instantly killed by a fall of slate at the face of his room in the long-wall mine of the McLean County Coal Co., Bloomington, Ill. The deceased had started to work the day previous after being out of the mines two years or more. The room in which he began work had not been worked for several months. He was engaged taking off the loose coal from the face on the right-hand side of his place about ten feet from the road head, when a piece of slate about 2 feet wide, 12 feet long and 14 inches thick, fell on him with the result as stated; he leaves a widow and two children.

Jan. 9, 1902, George C. Hitchcock, tracklayer, age 36 years, was instantly killed by a fall of slate in the Penwell Coal Co.'s mine, Pana, Christian

county. Deceased had gone into the tenth stub, west entry, off the fifth south on the east side of the mine; his work was to lay a switch into the cross-cut between the ninth and tenth west entries; while examining the place for laying the switch, about three tons of slate fell on him with the result as stated. He leaves a widow and one child.

May 12, 1902, Thomas H. Chapman, miner, age 48 years, was fatally injured by a fall of rock in the Kellyville Coal Co.'s No. 3 mine, Westville, Vermilion county, from the effects of which he died the next day. He leaves a widow and four children.

May 27, 1902, Wesley Gillum, miner, age 28 years, was injured by a powder explosion in the Economy Coal & Mining Co.'s mine, Danville, Vermilion county. He was placing a shot and in doing so broke the cartridge; some scattering grains of powder came out of the drill hole and dropped on his lighted lamp, which was on the ground just below the mouth of the hole; the powder ignited and carried fire to powder which was near him, causing it to explode. He was badly burned about the head, face and body. He was taken to the hospital where he died June 8, 1902.

June 26, 1902, George McDowell, miner, age 57 years, was instantly killed by the premature explosion of powder at the "Blue Bird" mine, Grape Creek, Vermilion county.

June 30, 1902, J. N. Brewer, miner, age 50 years, was fatally injured by a fall of rock in his room in the Colfax Coal & Mining Co.'s mine at Colfax, McLean county. The accident occurred about 11 A. M., from the effects of which he died at 2:30 P. M. the same day. There had been a fall of rock in his room earlier that morning, and a timberman had been sent to help clean it away. There was also found a piece of loose rock; Brewer stepped over to this rock for the purpose of getting the length of a prop to put under it, while doing this the rock fell on him with the result as stated; he leaves a widow and five children.

Following the fatal and non-fatal accidents are given in tabular form, also the county tables showing in detail the output and business of all the mines in the district.

All of which is respectfully submitted,

THOMAS WEEKS,

State Inspector of Mines, Fourth District, Bloomington.

Fatal Casualties—Fourth District—July 1, 1902.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widows.	Children.	Single.	Dependents.	Cause of Accident.
1901										
July 15	W. B. Foster	49	Miner	Pana	1	1	5	6		Falling coal
July 22	Arthur Langdon	17	Miner	Taylorville	1	1	1	1		Falling coal
July 23	Wm. Engle	24	Driver	Danville	1	1	1	2		Pit car
Aug. 12	John Michena	33	Miner	Grape Creek	1	1	3	4		Falling coal
Aug. 13	O. Stevens	28	Driver	do	1	1	1	1		Pit car
Aug. 17	John Cairns	36	Sup't	Moweaqua	1	1	1	2		Boiler breeching
Aug. 26	Thomas Jones	35	Miner	Chenoa	1	1	1	1		Falling down shaft t..
do ..	Joe Bria	21	Miner	do	1	1	1	1		do
do ..	Joe Baitto	48	Miner	do	1	1	7	8		do
do ..	Barni Calvetti	31	Miner	do	1	1	1	2		do
Sept. 11	Jas. W. Elkins	39	Miner	Oakwood	1	1	1	1		Falling rock
Oct. 26	Fredrick Utrich	70	Miner	Westville	1	1	1	1		Pit car
Oct. 31	Arthur Swisher	18	Miner	Danville	1	1	1	1		Falling rock
Nov. 23	Michael Pavloinas	28	Miner	do	1	1	3	3		do
Dec. 20	Rhinehardt Franke	41	Miner	Bloomington	1	1	2	3		do
1902										
Jan. 9	Geo. R. Hitchcock	36	Trackman ..	Pana	1	1	1	2		do
May 12	Thos. H. Chapman	48	Miner	Westville	1	1	4	5		do
May 27	Wesley Gillum	28	Miner	Danville	1	1	3	4		Powder explosion ..
June 16	Geo. McDowell	57	Miner	Grape Creek	1	1	3	3		do
June 30	I. N. Brewer	50	Miner	Colfax	1	1	3	6		Falling rock
	Total—20				15	15	41	5	50	

Recapitulation of Fatal Casualties—Fourth District—1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Chenoa	4	Miners	16	Falling rock	7	Brookside No. 2	1
Colfax	1	Drivers	2	Falling coal	3	Chenoa Coal Co.	4
Bloomington ..	1			Falling down shaft ..	4	Colfax Coal Co.	1
Danville	4	Tracklayer ...	1	Crushed under pit		Kellyville No. 3	2
Grape Creek ..	3	Sup't	1	cars	2	Himrod	1
Moweaqua	1			Crushed between		Moweaqua Coal Co. ...	1
Oakwood	1			coal and pit cars.	1	McLean Co. Coal Co. ..	1
Pana	2			Crushed between		Penwell Coal Co.	1
Taylorville ..	1			boiler breeching.	1	Economy	2
Westville	2			Powder explosion ..	2	Pawnee	2
						Blue Bird	1
						Springside mine	1
						Bennett's mine	1
						Taylorville	1
Totals	20		20		20		20

Non-Fatal Casualties—Fourth District—July 1, 1902.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury.	Time lost—days.
1901									
June 14	A. F. Jones.....	44	Assumption	1	....	6	6	Jaw broken, cause unknown...	69
July 1	Jas. Vanscoyke..	16	Georgeto'n	....	1	....	....	Leg broken, pit car.....	91
8	F. Umphenox...	24	Danville....	1	....	1	2	Foot injured, pit car.....	104
14	Rich. Stevenson.	25	Taylorville..	....	1	....	....	Leg broken, falling rock....	60
Aug. 1	Mike Polish.....	30	Westville....	....	1	....	....	Leg broken, falling rock....	40
21	G. R. Roberts....	68	Moweaqua....	1	....	....	1	Body injured, blown out shot.	30
24	Peter Montgerard	19	Danville....	....	1	....	....	Back injured, falling rock...	90
30	Arthur Anderson	15	Danville....	....	1	....	....	Leg broken, pit car.....	68
Sept. 6	Stephen Sock.....	49	Assumption	1	....	4	4	Toe cut off, falling rock....	60
11	Z. F. Brewer.....	49	Colfax.....	1	....	8	5	Leg injured, falling on rail...	180
20	Mike Savage.....	42	Lincoln.....	1	....	....	1	Body injured, gas explosion..	42
20	T. F. Holmes.....	41	Lincoln.....	1	....	....	1	Body injured, gas explosion..	120
27	Ed Broden.....	35	Georgeto'n	1	....	....	1	Arm broken, falling rock....	63
Oct. 3	Arthur Brooks...	20	Taylorville..	....	1	....	....	Foot injured, pit car.....	42
4	John Rogyain....	40	Westville....	1	....	....	1	Leg broken, falling rock....	93
7	Dukan Baltz.....	69	Grape Creek	1	....	....	1	Arm injured, falling rock....	30
10	E. Pashe.....	23	Danville....	....	1	....	....	Ankle injured, falling rock...	35
11	W. McCormack...	34	Westville....	....	1	....	....	Leg broken, falling rock....	42
Nov. 4	F. Maguire.....	24	Roanoke.....	1	....	1	2	Face injured by mule.....	102
5	N. Ogey.....	50	Kellyville..	1	....	....	1	Leg broken, falling rock....	50
11	W. N. Sullivan...	35	Himrod.....	1	....	1	2	Leg broken, falling rock....	124
11	Antone Ponfetti..	50	Assumption	1	....	4	5	Leg broken, falling coal....	170
25	Robert Elliot....	32	Grape Cr'ek	1	....	....	1	Body injured, pit car.....	90
Dec. 1	Richard Schoof..	17	Lincoln.....	....	1	....	....	Body injured, pit car props...	70
9	Wm. Linson.....	24	Danville....	1	....	....	1	Hip dislocated, falling rock.	35
12	P. Fisher.....	21	Roanoke.....	....	1	....	....	Leg broken, pit car.....	70
18	Paul Yianik.....	30	Himrod.....	1	....	1	2	Knee and back injured, fall- ing rock.....	35
18	W. M. Everet....	25	Grape Cr'ek	1	....	....	1	Ribs broken, pit car.....	42
18	Alex Boyd.....	35	Danville....	1	....	....	1	Body injured, falling rock....	60
30	Conrad Huff.....	42	..do.....	1	....	....	1	Body injured by mule.....	90
24	Vic Nygren.....	22	..do.....	1	....	....	1	Ankle injured, pit car.....	40
1902									
Jan. 1	Nell Goodor.....	25	..do.....	1	....	....	1	Thumb broken, pit car wheel.	30
6	Ed Nelson.....	41	..do.....	1	....	2	3	Toe broken, pit car.....	30
13	Sylvester Shaw..	34	Lincoln.....	....	1	....	....	Leg broken, pit car.....	186
16	Mike McGinly..	50	Westville....	1	....	....	1	Body injured, pit car.....	30
18	Wm. Donovan....	40	Assumption	1	....	5	6	Leg broken, falling rock....	81
18	Robt. Edwards...	51	Vandercreek	1	....	3	4	Leg broken, falling rock....	90
24	Adam Mallinofski	45	Decatur.....	1	....	4	5	Body injured, falling coal....	82
24	Jas. Bagen.....	32	Taylorville..	....	1	....	....	Arm injured, flying coal....	56
Feb. 13	Wm. Seright*....	32	Danville....	1	....	1	2	Foot & ankle injured by rope	42
15	W. M. Mann.....	28	Bloomingt'n	....	1	....	....	Hip dislocated, falling rock..	*
19	A. C. Wallace....	23	Himrod.....	....	1	....	....	Back injured, pit car.....	45
28	S. Sakins.....	50	Georgeto'n	1	....	2	3	Leg injured, falling rock....	30
Mar. 14	S. Yourkensky...	45	Georgeto'n	1	....	....	1	Hips injured, pit car.....	30
17	Alphonse Jolly*..	50	Pana.....	1	....	5	6	Head injured, falling rock...	*
22	Wm. Munday....	21	Pana.....	....	1	....	....	Foot broken, pit car.....	60
29	Tom Bennett....	45	Danville....	1	....	....	1	Finger cut off by dump.....	30
31	W. Yancy.....	27	Grape Cr'ek	1	....	....	1	Body injured, fall of rock and coal.....	90
Apr. 31	L. Baeduchi.....	34	Catlin.....	1	....	....	1	Leg broken, falling rock....	150
9	John Guites.....	30	Kellyville..	....	1	....	....	Collar bone broken, pit car...	75
10	H. Bishop.....	41	Roanoke.....	1	....	5	6	Finger lacerated, falling coal.	45
18	J. R. Jones.....	28	Danville....	1	....	3	4	Body injured, mule and car...	51
25	W. Dwyer.....	20	..do.....	....	1	....	....	Body injured, pit car.....	40
25	Amos Kirkhart..	53	Catlin.....	1	....	4	5	Ribs broken, falling rock....	120
30	John Mustchkie..	45	Taylorville..	1	....	6	7	Leg injured, falling coal....	95

Non-Fatal Casualties—Fourth District—July 1, 1902—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury.	Time lost—days.
1902									
May 1	Claude Little.....	30	Tilton.....	1	....	1	2	Back injured, falling rock....	60
10	P. Fox.....	23	Danville.....	....	1	....	....	Body crushed, pit car.....	38
12	John Labue.....	23	do.....	....	1	....	....	Body crushed, falling rock....	45
20	Emerson Cook.....	22	Catlin.....	....	1	....	1	Face cut, falling rock.....	30
25	S. B. Harris.....	19	Westville.....	....	1	....	....	Body and leg injured, falling rock.....	30
26	A. Compeodo.....	50	Grape Cre'k.....	1	....	....	1	Leg broken, falling rock.....	60
29	H. Clingan.....	29	do.....	....	1	....	....	Body injured, pit car.....	40
June 6	George Bostick.....	23	Danville.....	....	1	....	....	Leg cut off, falling rock.....	*
7	F. D. Myers.....	28	do.....	....	1	....	....	Leg broken, falling rock.....	60
12	Geo. Bromley*.....	31	do.....	1	....	2	3	Leg cut, falling on chisel.....	*
19	Thos. Harper*.....	45	Peoria.....	1	....	4	5	Leg broken, falling rock.....	*
24	Chas. Veador.....	45	Kellyville.....	....	1	....	....	Leg broken, falling rock.....	60
	Totals.....	..	.....	42	26	73	110		

* Not recovered July 1, 1902.

Total men injured.....	68
Not recovered July 1, 1902.....	6
Number recovered July 1, 1902.....	62
Time lost by men recovered.....	4,188 days
Average days lost by men recovered.....	67.5

Recapitulation of Non-Fatal Casualties — Fourth District—1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Assumption.....	4	Drivers.....	16	Blown shot.....	1	Assumption Coal Co.....	4
Bloomingt'n.....	1	Engineers.....	1	Chisel.....	1	Bluebird.....	2
Catlin.....	3	Grippers.....	2	Dump.....	1	Brookside Coal Co....	4
Colfax.....	1	Laborers.....	2	Falling coal.....	4	Catlin Coal Co.....	3
Danville.....	20	Miners.....	40	Falling on rail.....	1	Christian Co. Coal Co	2
Decatur.....	1	Mine manager.....	1	Falling rock.....	33	Citizens Coal Co.....	2
Georgetown.....	4	Spragger.....	1	Gas explosion.....	2	Colfax Coal Co.....	1
Grape Creek.....	6	Sup't.....	1	Mules.....	2	Consolidated Coal Co	1
Himrod.....	3	Top man.....	1	Pit cars.....	21	Decatur Coal Co.....	1
Kelleyville.....	3	Trappers.....	2	Rope on car.....	1	Economy Coal Co.....	3
Lincoln.....	4	Trimmers.....	1	Unknown.....	1	Himrod.....	5
Moweaqua.....	1					Kelleyville.....	18
Pana.....	2					Lincoln Coal Co.....	2
Peoria.....	1					McLean Co. Coal Co.	1
Roanoke.....	3					Moweaqua Coal Co....	1
Taylorville.....	4					Pana Coal Co.....	2
Tilton.....	1					Pawnee Coal Co.....	8
Vandercook.....	1					Roanoke Coal Co.....	3
Westville.....	5					Taylorville Coal Co...	1
						Westville Coal Co....	4
Totals.....	68		68		68		68

*Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-
jugal Relations and Time Lost.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Aver- age days.	
Ankles injured.....	2	1	1	1	75	37.5	2.94
Arms broken.....	1	1	.....	1	63	63	1.47
Arms injured.....	2	1	1	1	86	43	2.94
Backs injured.....	3	1	2	2	232	77.3	4.41
Bodies injured.....	16	10	6	17	866	54.1	23.52
Collar bone broken.....	1	.....	1	.....	75	75	1.47
Faces injured.....	2	1	1	3	132	66	2.94
Feet injured.....	4	2	2	4	206	51.5	5.88
Fingers cut off.....	1	1	.....	1	30	30	1.47
Fingers injured.....	1	1	.....	6	45	45	1.47
Head injured.....	1	1	.....	1	30	30	1.47
Hip dislocated.....	1	.....	1	.....	42	42	1.47
Hip injured.....	2	1	1	1	65	32.5	2.94
Jaw broken.....	1	1	.....	6	69	69	1.47
Legs broken.....	19	10	9	24	1,535	80.8	27.94
Leg cut off.....	1	.....	1	.....	.....	.....	1.47
Leg injured.....	5	5	.....	20	355	71	7.35
Ribs broken.....	2	2	.....	14	162	81	2.94
Thumb broken.....	1	1	.....	1	30	30	1.47
Toe broken.....	1	1	.....	3	30	30	1.47
Toe cut off.....	1	1	.....	4	60	60	1.47
Totals.....	68	42	26	110	4,188	67.5	100.00

Christian County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	The Taylorville Coal Co., 1...	Taylorville...	224,834	91,081	100,442	.....	2,527	30,784
2	Christian Co. Coal Co., 1.....	do	99,172	59,129	20,003	420	1,728	17,892
3	Springside Coal Mfg. Co.	Pana	101,092	40,211	16,792	4,537	4,622	34,930
4	Pana Coal Co., 1.....	do	97,640	40,032	7,807	102	17,620	32,079
5	Penwell Coal Mining Co., 1....	do	122,025	41,882	22,894	7,244	19,470	30,535
6	Assumption Coal & Min'g Co. 1	Assumption..	80,325	42,609	.....	.....	12,112	25,604
Totals—6 mines.....			725,088	314,944	167,938	12,303	58,079	171,824

Mines in 1901, 6.

Mines in 1902, 6.

Edgar County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINE.								
1	Mike Garvin.....	Paris. Rural Route No. 11	800	800	.....	.....	.....	.....
	Totals .....	.....	800	800	.....	.....	.....	.....

New mines, 1.

Mines in 1902, 1.

Christian County—Fourth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		
	Average number of miners.	All other em- ployés.	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.	Number.
\$204,175	190	65	255	198,534	14,000	12,280	258	224,834	\$0 49	4,900	1	1	1
96,133	140	31	171	92,707	5,095	1,482	263	99,172	49	5,600	....	3	2
72,698	130	55	185	91,900	2,800	6,300	154	101,092	49	400	1	....	3
71,839	110	61	171	79,502	5,530	12,608	112	97,640	49	400	....	2	4
102,570	120	80	200	101,611	12,476	7,938	150	122,025	49	650	1	5	5
98,256	110	52	162	66,932	7,723	5,670	180	80,325	65½	.....	....	4	6
\$645,671	800	344	1,144	631,186	47,624	46,278	186	725,088	\$0 508	11,950	3	12	

Edgar County—Fourth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	Number.
\$1,000	8	2	10	.....	800	.....	90	800	\$0 80	60	...	...	1
\$1,000	8	2	10	800	90	800	\$0 80	60	

Logan County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS,					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Lincoln Coal Co., 1.....	Lincoln.....	76,410	54,600	5,000	.....	.....	16,810
2	Mt. Pulaski Coal Co., 1.....	Mt. Pulaski...	6,741	3,580	350	215	460	2,136
3	Citizens' Coal Mining Co., 1.	Lincoln.....	94,880	36,512	42,720	.....	15,648	.....
Totals—3 mines.....			178,031	94,692	48,070	215	16,108	18,946

Mines in 1901, 3.

Mines in 1902, 3.

McLean County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	McLean County Coal Co., 1..	Bloomington..	130,000	80,000	10,000	.....	15,000	25,000
2	The Colfax Coal Co., 1.....	Colfax	36,472	22,420	2,699	398	1,174	9,781
Totals.....			166,472	102,420	12,629	398	16,174	34,781
LOCAL MINE.								
1	Chenoa Coal Co., 1.....	Chenoa	500	.....	450	.....	.....	50
Totals—3 mines			166,972	102,420	13,149	398	16,174	34,831

Mines in 1901, 4.

Abandoned mines, 1.

Mines in 1902, 3.

Logan County—Fourth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$69,643	80	47	127	53,380	17,000	6,030	200	76,410	\$0 53	2,793	....	2
9,638	13	10	23	121	5,514	1,106	157	6,741	66	409	....	12
91,338	90	44	134	74,260	10,800	9,820	212	94,880	53	3,486	....	2
\$170,619	183	101	284	127,761	33,314	16,956	190	178,031	\$0 53	6,688	....	4

McLean County—Fourth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$159,750	225	85	310	60,000	50,000	20,000	285	130,000	\$0 81	.....	1	1
43,865	78	36	114	28,018	5,194	5,260	280	36,472	53	1,610	1	1
\$208,615	303	121	424	86,018	55,194	25,260	280	166,472	\$0 71	1,610	2	2
587	6	5	11	.....	450	50	30	500	\$0 53	25	4	.....
\$204,202	309	126	435	86,018	55,644	25,310	.....	166,972	.....	1,635	6	2

Macon County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Decatur Coal Co.,1.....	Decatur	27,104	19,131	4,500	.....	2,473	1,000
2	Decatur Coal Co.,1.....	Niantic	41,966	23,059	185	.....	10,289	3,433
Totals.....		.....	69,070	47,190	4,685	.....	12,762	4,433
LOCAL MINE.								
1	Decatur Coal Co.,2.....	Decatur	40,650	21,419	10,500	.....	4,726	4,005
Totals—3 mines.....		.....	109,720	68,609	15,185	.....	17,488	8,438

Mines in 1901, 3.
Mines in 1902, 3.

Shelby County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Moweaqua C. M. & Mfg.Co.,	1 Moweaqua....	88,117	37,728	12,591	.....	13,623	24,175
LOCAL MINES.								
1	B. F. Stretch,1.....	Shelbyville...	2,600	2,600	.....	.....	.....	.....
2	John Richardson.....	do	4,020	4,020	.....	.....	.....	.....
3	M. Brophy,1.....	do	1,280	1,280	.....	.....	.....	.....
4	J. A. Bowman,1.....	do	345	345	.....	.....	.....	.....
5	W. F. Gallagher,1.....	Mode	1,000	1,000	.....	.....	.....	.....
6	Charles Michaelis,1.....	Fancher	300	300	.....	.....	.....	.....
7	Wietick Bros.1.....	Findlay.....	2,369	2,279	.....	.....	90	.....
Totals.....			11,914	11,824	.....	.....	90	.....
Totals—8 mines.....			100,031	49,552	12,591	.....	13,713	24,175

Mines in 1901, 8.
New mines, 1.
Abandoned, 1.
Mines in 1902, 8.

Macon County—Fourth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$43,302	70	29	99	19,131	7,973	.....	120	27,104	\$0 64	.....	.....	1	1
44,520	48	22	70	32,404	6,639	2,923	210	41,966	53	1,784	.....	.....	2
\$87,822	118	51	169	51,535	14,612	2,923	165	69,070	\$0 56	1,784	....	1	
60,362	90	34	124	.....	40,650	.....	120	40,650	\$0.64	.....	.....	.....	1
\$148,184	208	85	293	51,535	55,262	2,923	.....	109,720		1,784	....	1	

Shelby County—Fourth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$99,210	102	52	154	70,789	8,450	8,878	220	54,008	\$0 53	3,031	1	1	1
\$5,850	8	4	12		2,540	60	275	2,600	\$1 37½				1
9,045	12	4	16		4,020		200	4,020	1 37½				2
2,880	6	2	10		1,250		125	1,280	1 40				3
776	4	1	5		345		100	345	1 50				4
1,750	8	1	9		1,000		225	1,000	1 10				5
450	2		2		300		200	300	1 10				6
5,128	8	2	10		2,369		225	2,369	1 37½				7
\$25,879	50	14	64		11,854	60	196.2	11,914	\$1 35				
\$125,089	152	66	218	70,789	20,304	8,938	.....	65,922	.....	3,031	1	1	

Vermilion County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Economy Coal & Mining Co.	Danville	137,206	.....	137,206	.....	.....	.....
2	Kellyville Coal Co., 2.....	..do	398,073	12,000	386,073	.....	.....	.....
3	Kellyville Coal Co., 3.....	..do	404,391	.....	404,391	.....	.....	.....
4	Kellyville Coal Co., 4.....	..do	2,917	.....	2,917	.....	.....	.....
5	Oakwood Coal Co., 1.....	Oakwood	4,000	3,000	300	.....	200	12,500
6	Westville Coal Co., 1.....	Westville.....	293,111	14,000	267,111	.....	.....	.....
7	Alfred Hoskins & Son, 1.....	Grape Creek..	805	600	105	.....	.....	100
8	Himrod Coal Co.....	Danville.....	309,622	.....	309,622	.....	.....	.....
9	Thos. Kelly, 1.....	Grape Creek..	800	400	400	.....	.....	.....
10	Himrod Coal Co.....	Danville.....	276,425	131,985	6,640	.....	.....	137,800
11	Consolidated Coal Co.....	Missionfield..	98,945	.....	98,015	.....	.....	930
12	Consolidated Coal Co.....	Fairmount.....	70,310	55,319	.....	.....	.....	14,991
13	Brookside Coal Min. Co., 1 & 2	Danville.....	182,928	34,206	118,352	.....	.....	30,340
14	John O'Connell Co.....	..do	52,365	.....	52,135	.....	.....	230
15	Joe Mauck, 1.....	..do	1,920	1,100	400	.....	.....	420
16	Catlin Coal Co., 1.....	Catlin.....	145,011	70,452	51,267	.....	.....	23,292
17	Bunting Brothers, 1.....	Grape Creek..	7,178	3,548	903	.....	.....	2,727
18	Muncie Coal Co., 1.....	Muncie.....	8,832	.....	8,832	.....	.....	.....
19	Mauck Brothers, 1.....	Danville.....	28,000	13,700	4,600	.....	.....	9,700
Totals			2,422,839	340,310	1,849,299	.....	200	226,358

Vermilion County—Fourth District—Continued.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$150,927	115	47	162	132,500	2,200	2,506	281	137,206	\$0.60	5,000	2	3	1
359,605	290	119	409	386,073	6,000	6,000	256	398,073	.49	7,013	...	11	2
351,820	300	98	398	395,991	.....	8,400	245	404,391	.49	8,000	2	5	3
2,587	15	6	21	2,907	.....	10	48	2,917	.49	67	.....	2	4
4,390	3	1	4	600	3,400	.....	180	4,000	.49	160	.....	5	5
263,900	225	123	348	286,984	2,427	3,700	281	293,111	.49	5,235	.....	5	6
859	2	.....	2	105	700	.....	75	805	.49	.....	.....	7	7
278,660	225	96	321	304,078	1,344	4,200	232	277,622	.49	7,023	1	4	8
740	3	.....	3	400	400	.....	250	800	.49	40	.....	9	9
239,857	200	104	304	272,775	350	3,300	239	276,425	.49	7,084	2	9	10
98,015	.....	110	110	92,500	35	6,410	165	.....	*	654	.....	11	11
70,612	61	33	94	63,769	2,616	3,925	250	70,310	.49	3,271	.....	12	12
161,767	215	81	296	178,486	842	3,800	245	182,928	.49	5,658	1	4	13
46,991	58	27	85	50,741	815	809	217	52,365	.49	1,880	1	2	14
1,945	5	3	8	400	1,520	.....	150	1,920	.49	85	.....	15	15
136,585	140	75	215	140,006	592	4,419	237	145,011	.49	.....	.....	3	16
6,793	7	6	13	902	6,276	.....	245	7,178	.49	230	.....	17	17
9,274	20	10	30	4,530	4,000	302	150	8,832	.49	354	.....	18	18
26,400	20	9	29	4,784	23,216	.....	208	28,000	.49	700	.....	19	19
<u>\$2,210,667</u>	<u>1,904</u>	<u>948</u>	<u>2,852</u>	<u>2,301,425</u>	<u>56,533</u>	<u>47,781</u>	<u>208</u>	<u>2,291,894</u>	<u>\$0.49</u>	<u>52,454</u>	<u>9</u>	<u>48</u>	

Vermilion County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	E. S. Gray, 1 & 2.....	Danville.....	30,000		30,000			
2	Carter Brothers, 1.....	do.....	4,300	1,500	2,100			700
3	Danville Brick & Tile Works.....	do.....	7,500		7,500			
4	William Stime, 1.....	do.....	730	274	182		182	92
5	B. A. Hodges, 1.....	do.....	535	280	125		10	120
6	John Swanson, 1.....	do.....	1,800	400	1,400			
7	L. S. Miller, 1.....	do.....	1,900	1,900				
8	S. M. Hodges & Son, 1.....	do.....	3,027		3,027			
9	Stansburg & Watkins, 2.....	do.....	6,000	3,500				2,500
10	Morin & Mobaker, 1.....	do.....	4,080	2,720				1,360
11	Joe Thompson, 1.....	Grape Creek.....	1,200		1,200			
12	Joe Lietard, 1.....	do.....	150	100				50
13	Hensley Stevens, 1.....	do.....	200	150				50
14	E. Miller, 1.....	do.....	400	300				100
15	Evan J. Jones.....	Catlin.....	700	700				
16	William Neville.....	do.....	1,000	700			200	100
17	Jones & Sons, 1.....	do.....	5,040	4,200			430	410
18	C. K. Smoot, 1.....	Vandercook.....	776	600	25		50	100
19	Star Coal Co., 1.....	do.....	3,000	1,000	1,500			500
20	John R. Colburn, 2.....	do.....	2,788	1,920	228		640	
21	L. E. Baker, 1.....	Oakwood.....	1,400	1,200				200
22	France Brothers, 1.....	Fairmount.....	4,500	3,600			500	400
23	William Molten, 1.....	Danville.....	200	300				
24	D. A. Jenkins.....	do.....	10,200	5,213	1,000		200	3,787
25	Milt Frost.....	do.....	600	600				
26	William Kelly.....	do.....	500	500				
27	A. Fredrickson.....	do.....	1,000	700				300
28	H. Dettman.....	do.....	300	300				
29	William Winhaur, 1.....	do.....	6,000	4,000	1,000		200	800
30	S. Parle, 1.....	do.....	6,500	4,000	500			2,000
31	Joe Bales, 1.....	do.....	1,400	1,400				
32	James Thomas, 1.....	do.....	2,260	1,560			400	300
33	John Woodard, 1.....	Oakwood.....	800	700				100
34	Silas Miller, 1.....	Grape Creek.....	317	239				78
35	William Ray, 1.....	Danville.....	900	500	300			100
36	A. H. Bonnett.....	Blount.....	3,100	2,000			1,000	100
37	W. C. Shafer, 1.....	Danville.....	6,940	1,116	3,470		842	1,512
38	M. C. Wilkinson, 1.....	do.....	2,500	1,600			400	500
39	C. J. Dobbins, 1.....	do.....	1,000	1,000				
40	Miller & Spangler.....	do.....	3,257		3,257			
Totals.....			128,799	50,672	56,814		5,054	11,280
Totals—59 mines.....			2,551,638	390,982	1,906,113		5,254	249,289

Mines in 1901, 55.

New mines, 10.

Abandoned mines, 6.

Mines in 1902, 59.

Vermilion County—Fourth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other em- ployés.	Total.	Tons loaded on cars for ship- ment and sup- plied to locomo- tives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non- fatal.
\$30,000	30	5	35		30,000		200	30,000	\$0.49	1,000		1
3,625	6	5	11		3,600	700	150	4,300	.50	750		2
7,500	6		6			7,500	300	7,500	.49			3
739		2			730		120	730	.49	35		4
629	2		2		535		100	535	.49	20		5
1,900	2		2		1,800		100	1,800	.50	48		6
2,375	2		2		1,900		75	1,900	†			7
2,876	5	3	8		3,027		280	3,027	.49	100		8
7,000	8	2	10		6,000		250	6,000	.49	190		9
5,100	4		4		4,080		125	4,080	.49	81		10
1,020	5	1	5		1,200		50	1,200	.49	60		11
135	2		2		150		60	150	.49	6		12
198	3		3		200		60	200	.75	19		13
395	3	1	4		400		40	400	.75	20		14
700	2		2		700		150	700	.49	30		15
1,045	2	1	3		900	100	260	1,000	.49	25		16
6,812	5	1	6		4,960	80	252	5,040	.49	225		17
833	3	1	4		775		125	775	.49	30		18
3,000	2		2		3,000		200	3,000	.49			19
3,268	2		2		2,788		208	2,788	.53	90		20
1,540	2	1	3		1,400		140	1,400	.49	65		21
5,837	7	3	10		4,100	400	220	4,500	.55	115		22
250	1		1		200		90	200	.49	300		23
11,520	14	5	19		10,200		330	10,200	.49			24
750	1		1		600		100	600	.49	30		25
625	1	1	2		500		75	500	.49	25		26
950	2		2		1,000		224	1,000	.49	30		27
375	2		2			300	50	300	.49			28
19,450	5	9	14		6,000		300	6,000	.49	200		29
7,900	8	5	13		6,500		313	6,500	.49	130		30
1,750	1	1	2		1,400		260	1,400	.49	30		31
2,490	3	2	5		2,160	100	215	2,260	.50	65		32
570	3	1	4		700	100	105	800	.55	30		33
318	2	1	3		317		60	317	.49	8		34
1,215	2	1	3		900		200	900	.49	20		35
3,280	10	4	14		3,000	100	100	3,100	.49	200	1	36
6,539	3	3	6		6,940		285	6,940	.49	112		37
3,250	5	4	9		2,500		125	2,500	.50	75		38
1,250	4		4		1,000		130	1,000	†			39
2,931	3	3	6		3,101	156	180	3,257	.49	100		40
\$142,940	127	....	244	.....	119,263	9,536	165	128,799	\$0.50	42,454	1	....
\$2,353,607	2,081	1015	3,096	2,301,425	175,796	57,317	.....	2,420,693	.....	56,718	10	48

* 98,945 tons mined by machine, paid by the day.

† 1,900 tons mined by hand, paid by the day.

† 1,000 tons mined by hand, at \$1.50 per day.

Woodford County—Fourth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
	SHIPPING MINE.							
1	Roanoke Coal Mining Co. 1..	Roanoke.....	107,584	77,716	20,206	.....	1,433	3,229
	Totals—1 mine.....	.....	107,584	77,716	20,206	.....	1,433	3,229

Mines in 1901, 2.

Abandoned mine, 1.

Mines in 1902, 1.

Woodford County—Fourth District--Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$137,637	171	63	234	93,211	8,533	5,840	267	107,584	\$0.76	.....	.....	3
\$137,647	171	63	234	93,211	8,533	5,840	267	107,584	\$0.76	.....	.....	3

Number.

1

1

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Christian	6	725,088	314,944	167,938	12,303	58,079	130,249	41,575	\$ 645,671
Logan	3	178,031	94,692	48,070	215	16,108	17,840	1,106	170,619
Macon	2	69,070	47,190	4,685	.....	12,762	4,433	.....	87,822
McLean	2	166,472	102,420	12,699	398	16,174	17,978	16,803	203,615
Shelby	1	88,117	37,728	12,591	.....	13,623	15,297	8,878	99,210
Vermillion	19	2,422,839	340,310	1,849,299	.....	200	226,358	6,672	2,210,667
Woodford	1	107,584	77,716	20,206	.....	1,433	2,299	5,930	127,637
Totals and averages..	34	3,757,201	1,015,000	2,115,488	12,916	118,379	414,454	80,964	\$3,555,241

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Edgar	1	800	800	.....	.....	.....	.....	.....	\$ 1,000
Macon	1	40,650	21,419	10,500	.....	4,726	4,005	.....	60,362
McLean	1	500	.....	.....	450	.....	.....	.....	587
Shelby	7	11,914	11,824	.....	.....	90	.....	.....	25,879
Vermillion	40	128,799	50,672	56,814	.....	5,054	11,280	4,979	142,940
Totals and averages..	50	182,663	84,715	67,754	.....	9,870	15,285	5,029	\$230,768
Totals district—all mines..	.....	3,939,864	1,099,715	2,183,252	12,916	128,249	429,739	85,993	\$3,786,009

Whole number of mines reported in 1901, 81.

Number of new mines opened during the year, 12.

Number of mines abandoned during the year, 9.

Whole number of mines reported for 1902, 84.

Fourth District—1902—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties. Number non-fatal cas't's.
Number of miners.	All other employé's.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.		
800	344	1,144	573,758	57,428	47,624	46,278	186	725,088	.....	\$0.508	.....	11,950	3 12
183	101	284	101,433	26,328	33,314	16,956	190	178,031	.....	0.530	.....	6,688	.. 4
118	51	169	51,535	.....	14,612	2,923	165	69,070	.....	0.573	.....	1,784	.. 1
268	121	389	58,226	27,792	55,194	25,260	283	166,472	.....	0.710	.....	1,610	2 2
102	52	154	58,706	12,083	8,450	8,878	220	54,008	34,109	0.530	\$0.460	3,031	1 1
1,904	948	2,852	2,301,425	17,100	56,533	47,781	208	2,291,894	130,945	0.497	0.390	52,454	9 48
171	63	234	88,100	5,111	8,533	5,840	267	107,584	.....	0.760	.....	.....	.. 3
3,546	1,680	5,226	3,233,183	145,842	224,260	153,916	217	3,592,147	165,054	\$0.52	\$0.404	77,517	15 71

Fourth District—1902—Local Mines,

EMPLOYEES.			DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties. Number non-fatal cas't's.
Number of miners.	All other employé's.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.	By hand.		By machine.	Hand mining.	Machine mining.			
8	2	10	.....	.....	800	.....	90	800	.....	\$0.80	.....	60	..
90	34	124	.....	.....	40,650	.....	120	40,650	.....	0.64	.....	.....	..
6	5	11	.....	.....	450	50	30	500	.....	0.53	.....	25	4
50	14	64	.....	.....	11,854	60	193	11,914	.....	1.35	.....	.....	..
177	67	244	.....	.....	119,263	9,536	165	128,799	.....	0.495	.....	4,264	1
331	122	453	.....	.....	173,017	9,646	120	182,663	.....	\$0.585	.....	4,349	5
3,877	1,802	5,679	3,233,183	145,842	397,277	163,562	200	3,774,810	165,054	\$0.52	\$0.404	81,866	20 71	

FIFTH INSPECTION DISTRICT—1902.

NINETEENTH ANNUAL REPORT.

Counties—Brown, Calhoun, Greene, Jersey, Macoupin, Montgomery, Morgan, Sangamon, Scott.

WALTON RUTLEDGE, *Inspector*, Alton.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Ill.

SIR—In compliance with the statutes of the State, defining the duties of the State inspectors of coal mines, I herewith submit the nineteenth annual report of the coal mines in the Fifth Inspection District for the year ended June 30, 1902.

A tabular statement is herewith given of the statistics of each county, showing the number of mines operated during the year, both shipping and local; the new and abandoned mines; the depth of coal below the surface, with the geological number and thickness of the various coal seams; the number of miners and other employes working in the mines and on the surface; the total tonnage of all grades of coal; the average value of coal at the mines, and the aggregate value of the total product in the district; the casualties in and around the mines, both fatal and non-fatal.

The following summary is given as a recapitulation of the principal facts found in the schedules of the various counties:

Number of mines	99
Number of new mines	20
Number of abandoned mines	23
Number of shipping mines	46
Number of local mines	53
Total output in tons of 2,000 pounds	6,213,386
Tons of lump coal	2,962,970
Tons of mine run coal	1,588,586
Tons of egg coal	74,215
Tons of nut coal	263,503
Tons of screenings (pea coal)	1,104,719
Tons of slack or duff	219,393
Average value of lump coal at mine	\$1.27
Average value of mine run coal	\$0.858
Average value of egg coal	\$0.932
Average value of nut coal	\$0.768
Average value of screenings	\$0.418
Average value of waste coal	\$0.157
Aggregate value of the total product	\$5,175,573
Number of miners	5,168
Number of others under ground	1,359

Boys underground.....	261
Employés above ground.....	776
Total number of employés.....	7,564
Tons loaded on cars for shipment.....	5,496,832
Tons supplied to locomotives at mines.....	216,247
Tons sold to local trade.....	287,360
Tons consumed or wasted at the mines.....	212,947
Average number of days in operation.....	211.4
Tons mined by hand.....	3,910,157
Tons mined by machines.....	2,303,239
Price paid per ton for hand mining.....	\$0.495
Price paid per ton for machine mining.....	\$0.42
Number of mines using coal cutting machines.....	14
Number of machines in use.....	137
Number of kegs of powder used for blasting coal.....	163,962
Number of fatal accidents.....	17
Number of non-fatal accidents.....	60
Number of widows.....	8
Number of children made fatherless.....	24
Number of boilers in use at the mines.....	193
Number of horses and mules underground.....	628
Number of horses and mules above ground.....	111
Number of mines using compressed air machines.....	10
Number of mines using electric machines.....	4
Number of mines using tail rope haulage.....	3
Number of mines using endless rope haulage.....	2
Number of mines using electric motor haulage.....	4
Number of electric motors used in the district.....	5
Number of tons mined to each fatal accident.....	365,493
Number of tons mined to each non-fatal accident.....	103,556

Coal production by counties in the Fifth District, with increase or decrease in each, for the years ending June 30, 1901 and June 30, 1902.

COUNTIES.	TOTAL OUTPUT IN TONS.		Increase.	Decrease.
	1901.	1902.		
Brown	1,950	2,116	166	.....
Calhoun	5,204	3,429	.....	1,775
Greene	13,233	9,491	.....	3,742
Jersey	2,791	3,053	262	.....
Macoupin.....	2,115,319	2,075,253	.....	40,066
Montgomery.....	328,251	419,810	91,559	.....
Morgan	3,047	3,310	263	.....
Sangamon	2,919,223	3,672,987	753,764	.....
Scott	27,486	23,937	.....	3,549
Totals.....	5,416,504	6,213,386	864,014	49,132
Total net increase.....	.....	.....	796,882	.....

The district shows a net increase of 796,882 tons, which is largely due to Sangamon and Montgomery counties. Sangamon county mines show an output of 3,672,987 tons, a gain of 753,764 tons over last year; Montgomery county shows a gain of 91,559 tons over last year, while Macoupin county falls short of last year 40,066 tons.

New Mines.—The Jefferson Coal Co. has opened out a new mine near the Converse brick plant, one mile and one-half from the southeast corner of the corporate limits of Springfield. A spur is run from the B. & O. S. W. R. R. to this mine; the escapement or air shaft was sunk as soon as the main shaft was down; both shafts are now connected. A fifteen foot fan has been set up for ventilation, and the mine is now working very successfully. A number of houses are now being built near the mine for the use of the miners.

Escapement Shafts.—The Raymond Coal Co. of Raymond, Montgomery county, has finished its escapement and air shaft during the year; this mine was formerly known as the Progressive Coal Co.'s mine. The property was sold to a St. Louis firm, who changed the name to the Raymond Coal Co. The mine is being opened on the long-wall system of mining; the coal seam is three feet and three inches in thickness, of a good quality, and suitable for long-wall working.

Improvements—The Chicago Virden Coal Co., of Virden, Macoupin county, has made some important improvements at its No. 1 mine during the year; Two new boilers have been set up; each boiler is 66 inches in diameter by 20 feet long and 26 inch flues. An engine and a 112 K. W. generator and two 13 ton general electric traction motors have been installed, new tracks of 40 pound rails have been laid on the main haulage roads of the mine, a new shaker screen and weigh hopper have also been put in and the water supply has been largely increased.

The Montgomery Coal Co. of Paisley, Montgomery county, has made some very substantial improvements at its mine. A new tower, shaking screen, weigh hopper and scales have been put up.

The Greenridge Mining Company at Girard, Macoupin county, has put in a new and larger fan which has greatly increased the ventilation.

The Victor Coal Co. of Pawnee, Sangamon county, has put up a new 20 foot fan, also substantial stairways in the escapement shaft.

Fatal Accidents.—The following is a detailed statement of the fatal accidents that have taken place in the fifth district during the year ended June 30, 1902.

Aug. 26, 1901, James Ryan, mine manager, age 52 years, married, leaves a widow and four children, was killed by being caught by mine cars on the endless rope plain in the Capital Coöperative Coal Co.'s mine at Springfield, Sangamon county. He was walking on the rope plain behind a trip of cars; the couplings between the cars suddenly broke, allowing some of the cars to run back, which caught him, bruising him so that he died in a few hours.

Sept. 21, 1901, Wm. S. Owens, miner, age 52 years, married, leaves a widow and two children, was injured by a fall of slate in the Junction Mining Co.'s mine of Springfield, Sangamon county, which caused his death Oct. 21, 1901.

Oct. 18, 1901, Fred Courtney, driver, age 21 years, single, was killed by being caught between pit cars in the Girard Coal Co.'s mine, Girard, Macoupin county.

Oct. 24, 1901, John Yocco, miner, age 34 years, married, leaves a widow and two children, was killed by a premature blast in his working place in the Riverton Coal Co.'s mine No. 2, at Riverton, Sangamon county.

Nov. 13, 1901, H. J. Wenshoff, trapper, age 15 years, was killed by being crushed between mine cars in the Consolidated Coal Co.'s No. 8 mine, at Mount Olive, Macoupin county.

Dec. 5, 1901, August Hartman, miner, age 52 years, leaves a widow and four children, was killed by a premature blast in his working place in the "A" shaft of the Citizen's Coal Mining Co. of Springfield, Sangamon county.

Jan. 18, 1902, William Edwards, miner's helper, age 16 years, was killed by a fall of clod in the Montgomery Coal Co.'s mine, at Paisley, Montgomery county. The boy was working with his father at the working face at the time of the accident.

Jan. 21, 1902, Andrew Janesky, miner, age 17 years, single, was killed by a fall of rock in his working place in the Chicago Virden Coal Co.'s No. 2 mine at Auburn, Sangamon county.

Jan. 21, 1902, Edward Megaha, cager, age 34 years, married, leaves a widow and three children, was caught under the cage, both legs were broken and his body badly bruised, from which he died Feb. 3, 1902. The accident occurred in the Riverton Coal Co.'s No. 1 shaft at Riverton, Sangamon county.

Feb. 10, 1902, John Moore, driver, age 18 years, single, was killed by a fall of slate and clod in a haulage entry in the Greenridge Mining Co.'s mine at Greenridge, Macoupin county.

Feb. 20, 1902, Frank Williams, driver, age 18 years, single, was killed by falling under a trip of mine cars in the Chicago Virden Coal Co.'s No. 2 mine at Auburn, Sangamon county.

March 7, 1902, John W. Kershaw, miner, age 55 years, leaves a widow and six children, was killed by a premature blast at his working face in the Clover Leaf Coal Co.'s mine at Coffeen, Montgomery county.

March 10, 1902, Andrew Rossoc, miner, age 32 years, leaves a widow, was killed by a premature blast in his working place in the Starne Coal Mining Co.'s mine at Springfield, Sangamon county.

March 19, 1902, G. R. Hall, miner, age 24 years, single, was killed by a premature blast in his working place in the Nilwood Carbon Coal Co.'s mine at Nilwood, Macoupin county.

April 7, 1902, Edward Roding, pipeman, age 35 years, leaves a widow and three children, was killed by a fall of rock while repairing an entry. He was working with the timber gang in the Consolidated Coal Co.'s No. 7 mine at Staunton, Macoupin county.

June 21, 1902, Dominick Vortalia, miner, age 30 years, single, was killed by a premature blast in the Chicago Virden Coal Co.'s No. 2 mine at Auburn, Sangamon county.

June 28, 1902, Charles Sangrelet, driver, age 22 years, single, was killed by being crushed between a mine car and a prop in the Litchfield Mining & Power Co.'s mine at Litchfield, Montgomery county.

Following will be found the tabular schedules of the mining counties, also tables showing the number and description of each fatal and non-fatal accident for the district.

Respectfully submitted,

WALTON RUTLEDGE,

State Inspector of Mines, Fifth District, Alton.

Fatal Casualties—Fifth District—July 1, 1902.

Date.	Name.	Age.	Occupation.	Residence. (town.)	Married.	Widow.	Single.	Children.	Persons dependent.	Cause of Accident.
1901										
Aug. 26	Jas. Ryan	52	Mine mgr...	Springfield..	1	1	..	4	5	Cars on rope plane....
Sep. 21	Wm. S. Owens ...	52	Miner.....	..do	1	1	..	2	3	Injured by fall of slate; died Oct. 21, 1901.....
Oct. 18	Fred Courtney ...	21	Driver	Girard .....	..	..	1	..	..	Caught between mine cars
Oct. 24	John Yocco	34	Miner.....	Riverton....	1	1	..	2	3	Premature blast
Nov. 13	H. J. Wenshoff....	15	Trapper	Mt. Olive ...	..	..	1	..	..	Crushed between mine cars
Dec. 5	August Hartman..	52	Miner.....	Springfield..	1	1	..	4	5	Premature blast
1902										
Jan. 18	Wm. Edwards	16	Miner's help	Paisley .....	..	..	1	..	..	Fall of clod
Jan. 21	Andro Jesensky...	16	..do	Auburn .....	..	..	1	..	..	..do
Jan. 21	Ed. Megaha	34	Cager	Riverton....	1	1	..	3	4	Caught under cage; died Feb. 3, 1902
Feb. 10	John Moore	18	Driver	Greenridge..	..	..	1	..	..	Fall of slate and clod ..
Feb. 20	Frank Williams ...	18	..do	Auburn .....	..	..	1	..	..	Fell under mine cars ..
Mar. 7	John W. Kershaw..	55	Miner.....	Coffeen	1	1	..	6	7	Premature blast
Mar. 10	Andrew Rossoc....	32	..do	Springfield..	1	1	..	..	1	..do
Mar. 19	G. R. Hall	24	..do	Nilwood .....	..	..	1	..	..	..do
Apr. 7	Ed. Roading	35	Pipeman....	Staunton ..	1	1	..	3	4	Fall of rock
June 21	Domonick Vatalia.	30	Miner.....	Auburn .....	..	..	1	..	..	Premature blast
June 28	Chr. Sangrelet ...	22	Driver	Litchfield..	..	..	1	..	..	Crushed between mine car and prop
Total—17....					8	8	9	24	32	

Recapitulation of Fatal Accidents—Fifth District—1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Springfield...	4	Miners.....	7	Fall of roof	5	Chicago Virden Coal Co.....	3
Auburn	3	Miners' help..	2	Premature	..	Riverton Coal Co	3
Riverton	2	Mine manager	1	blast	6	Consolidated Coal Co., No. 7..	1
Girard	1	Drivers	4	Crushed by	..	Consolidated Coal Co., No. 8..	1
Greenridge ..	1	Trapper	1	mine cars....	4	Clover Leaf Coal Co.....	1
Litchfield....	1	Cager.....	1	Caught by de-	..	Litchfield M. & P. Co.....	1
Mt. Olive	1	Pipeman.....	1	scending cage	1	Nilwood C. C. Co.....	1
Nilwood	1	..	..	Caught by trip	..	Greenridge Coal Co.....	1
Paisley	1	..	..	on rope plane	1	Starnes Coal Co.....	1
Staunton	1	..	..	..	..	Montgomery County Coal Co.	1
Coffeen	1	..	..	..	..	Girard Coal Co.....	1
						Capital Cooperative Coal Co..	1
						Citizens' Coal Mining Co.....	1
Totals.....	17		17		17		17

Non-Fatal Casualties—Fifth District—July 1, 1902.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury	Time lost—Days.
1901									
July 9	Wm. Naviska	20	Viriden.....	.....	1	.....	.....	Body injured, mine cars	32
12	Elisha Sanders	32	Pawnee.....	1	.....	2	3	Body injured, falling slate	60
16	Jas. Handright.....	23	Viriden.....	.....	1	.....	.....	Body and knee injured, mach.	30
24	C. Alderson	21	Viriden.....	.....	1	.....	.....	Body injured, pit car.....	30
Aug. 8	Fred Greendahl.....	17	Staunton .....	.....	1	.....	.....	Leg broken, mine car	60
24	Joe Hebenstreit.....	17	Staunton .....	.....	1	.....	.....	Wrist dislocated, pit car	32
Sept. 5	Frank Boss	33	Gillespie	1	.....	3	4	Body injured, pit car.....	40
28	John Morris	32	Mt. Olive.....	1	.....	2	3	Ankle dislocated, falling slate ..	34
Oct. 14	A. Gollor	25	Staunton .....	.....	1	.....	.....	Body injured, pit car.....	30
19	Harry Patterson	16	Viriden.....	.....	1	.....	.....	Finger cut, falling coal.....	32
21	Budd Squires	52	Viriden.....	1	.....	4	5	Body injured, falling slate.....	*
30	Andrew Ferguson	32	Thayer	1	.....	2	3	Arm broken, pit car	80
Nov. 15	John Crain	25	Viriden.....	.....	1	.....	.....	Hand mashed, pit car	40
23	Fred Wenshoff.....	17	Mt. Olive.....	.....	1	.....	.....	Hand mashed, pit car	32
25	M. Robinson.....	45	Viriden.....	1	.....	2	3	Leg injured, kicked by mule.....	45
30	Theo. Dolkamp.....	40	Springfield.....	1	.....	8	9	Leg broken, blast explosion.....	65
Dec. 13	Bert Galloway	22	Divernon.....	.....	1	.....	.....	Hip broken, pit cars.....	42
24	John Ensche	53	Springfield.....	1	.....	1	2	Arm broken, pit cars	60
24	Ben Woods	35	Springfield.....	1	.....	.....	4	Body burnt, blast explosion.....	60
24	Chas. Williams.....	24	Springfield.....	1	.....	.....	3	Body burnt blast explosion.....	30
30	Mike Tater	40	Staunton .....	.....	1	.....	3	Hand mashed, falling slate.....	32
30	John Shanahan	43	Hornsby	1	.....	.....	1	Body injured, falling coal.....	*
1902									
Jan. 3	Phil Simberger	17	Mt. Olive.....	.....	1	.....	.....	Hand injured, pit car.....	30
3	Thos. Black	35	Springfield.....	1	.....	2	3	Body burnt, powder explosion ..	35
3	John Griakinsky.....	40	Springfield.....	1	.....	4	5	Body burnt, powder explosion ..	40
6	J. Heniger	23	Springfield.....	.....	1	.....	.....	Leg broken, pit cars	60
9	Chas. Swain.....	46	Carlville.....	1	.....	2	3	Finger mashed, pit car.....	30
18	Chas. Judge.....	31	Auburn .....	.....	1	.....	.....	Leg broken and body injured by pit car.....	48
18	E. W. Campbell.....	28	Divernon.....	.....	1	.....	.....	Leg broken, falling coal.....	60
20	Thos. Davis	54	Springfield.....	1	.....	4	5	Head cut, premature blast.....	40
23	John Flynn.....	28	Chatham .....	.....	1	.....	.....	Leg broken, falling coal.....	90
27	Wm. Unger	36	Staunton	1	.....	6	7	Body injured, falling slate.....	40
28	Chas. Wappier.....	29	Staunton	1	.....	2	3	Rib broken, kicked by mule.....	30
30	Alb't Thomasson	19	Springfield.....	.....	1	.....	.....	Leg broken, pit cars.....	60
Feb. 4	Geo. Smack	45	Viriden.....	1	.....	.....	1	Arm broken, fell down chute.....	45
4	Patrick Conroy	20	Springfield.....	.....	1	.....	.....	Body injured, falling slate.....	40
6	Hy Melias	43	Hornsby .....	.....	1	.....	.....	Foot injured, pit cars.....	35
8	Geo. Christman.....	28	Viriden.....	.....	1	.....	.....	Wrist broken, fell at bottom.....	30
Mar. 12	Chas. Douglas.....	25	Viriden.....	1	.....	.....	1	Body injured, pit cars.....	42
12	H. J. Dryer	16	Viriden.....	.....	1	.....	.....	Ankle dislocated, pit car.....	30
6	Chas. H. Lueking	24	Fosterburg.....	.....	1	.....	.....	Leg broken, falling coal.....	90
18	John Sheppherd.....	42	Riverton.....	1	.....	4	5	Hands and face burnt, windy shot.....	42
18	Chas. Sheppherd	20	Riverton.....	.....	1	.....	.....	Hands and face burnt, windy shot.....	30
18	John Edwards	22	Staunton .....	.....	1	.....	.....	Body injured, dragged by mule.....	30
19	Wm. Kane	20	Nilwood .....	.....	1	.....	.....	Body injured, flying coal.....	30
20	Louis Goodnight.....	32	Gillespie	1	.....	3	4	Body injured, falling slate.....	40
21	Caleb Johnson.....	39	Mt. Olive.....	1	.....	4	5	Body badly injured, pit cars.....	*
Apr. 5	Nick Peters	56	Viriden.....	1	.....	1	2	Body injured and leg broken, premature blast.....	*
25	Willis Togerbon.....	27	Cantrall .....	.....	1	.....	.....	Leg broken by cage.....	*
May 22	Hy Schmidt	25	Staunton	1	.....	1	2	Leg broken and body injured, falling slate.....	*
28	Max Zentis	30	Thayer .....	.....	1	.....	.....	Body badly injured, prema- ture blast.....	*
28	Mike Senko	30	Thayer	1	.....	2	3	Leg broken and body injured, premature blast.....	*
31	Jas. Wholrey	25	Staunton .....	.....	1	.....	.....	Foot mashed, pit car	*

Non-Fatal Casualties—Fifth District—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury	Time lost—Days.
June 5	Ed. McCullen	23	Auburn .....	.....	1	.....	.....	Body injured, pit car.....	*
7	Frank Berryman.....	20	Viriden.....	.....	1	.....	.....	Foot mashed, pit car.....	*
9	Thos. Berry	32	Springfield.....	.....	1	.....	.....	Arm broken, falling off car...	*
9	Henry Mullen.....	18	Viriden.....	.....	1	.....	.....	Finger broken by sprag.....	*
11	P. C. Smith.....	32	Pleasant Pl's .....	.....	1	.....	.....	Leg broken, falling slate.....	*
14	Louis Chance	25	Auburn .....	.....	1	.....	.....	Face injured, kicked by mule..	*
23	Wm. Corwin.....	23	Carlinville..	1	.....	2	3	Body injured, premature blast	*
	Totals			27	33	69	96		1973

* Not recovered July 1, 1902.

Total men injured	60
Not recovered July 1, 1902.....	16
Number recovered July 1, 1902.....	44
Time lost by men recovered	1,973 days
Average days lost by men recovered.....	44.84

Recapitulation of Non-Fatal Accidents—Fifth District—1902.

Residence.	No.	Occupation.	No.	Nature of Casualty	No.	Colliery.	No.
Auburn	3	Cagers.....	2	Blast.....	10	Blk. Diam'd Coal Co.	2
Cantrall	1	Drivers	21	Cage.....	1	Cantrall	1
Carlinville.....	2	Loader	1	Falling coal	5	Carlinville.....	2
Chatham.....	1	Mach. helper..	1	Fall in mine	1	Chl.-Viriden Coal Co..	16
Divernon.....	2	Mach. runner..	1	Falling rock.....	9	Chl., W. & V. Coal Co.	3
Fosterburg ..	1	Miners.....	29	Falling into chute..	1	Citizens' Coal Co.....	1
Gillespie.....	2	Spraggers.....	1	Flying coal	1	Consolidated Coal Co	17
Hornsby.....	2	Topmen.....	2	Machine	1	Lincoln Park Coal Co	2
Mt. Olive.....	4	Trappers.....	2	Mule	4	Lakin's Bros.....	1
Nilwood.....	1			Powder explosion ..	2	Madison Coal Co.....	2
Pawnee.....	1			Pit cars	24	Nilwood Coal Co.....	1
Pleasant Pl's..	1			Sprag	1	Republic Iron Co.....	2
Riverton.....	2					Riverton Coal Co.....	3
Springfield...	11					Springfield Coal Co..	2
Staunton.....	9					Starnes Coal Co.....	1
Thayer.....	3					Trutter Coal Co.....	1
Viriden.....	14					Victor Coal Co.....	1
						Viriden Coal Co.....	2
Totals....	60		60		60		60

*Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-
jugal Relations and Time Lost.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependent.	TIME LOST.		Per cent of injured.
					Total days.	Average days.	
Ankle broken	2	1	1	3	64	32	3.34
Arms broken	4	3	1	6	185	46.2	6.67
Bodies injured	23	14	9	50	669	29.1	38.34
Feet injured	3	1	2	3	35	12	5.00
Fingers injured	3	1	2	3	62	21	5.00
Hands injured	4	1	3	4	134	33.5	6.67
Hands and face injured	2	1	1	5	72	36	3.34
Head injured	1	1	1	5	40	40	1.67
Hip broken	1	1	1	1	42	42	1.67
Jaw injured	1	1	1	1	1	1	1.67
Legs broken	12	3	9	14	533	44.4	20.00
Leg injured	1	1	1	3	45	45	1.66
Ribs broken	1	1	1	3	30	30	1.66
Wrist broken	1	1	1	1	30	30	1.66
Wrist dislocated	1	1	1	1	32	32	1.66
Totals, averages and percentages	60	27	33	96	1,973	32.9	100.00

Brown County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Wm. Lindsay	Mt. Sterling..	560	560	.....	.....	.....	.....
2	John Geisler.....	do.....	240	240	.....	.....	.....	.....
3	J. J. Friday.....	Ripley	80	80	.....	.....	.....	.....
4	H. H. Carniel.....	do.....	232	232	.....	.....	.....	.....
5	E. R. Kendrick.....	Marden	50	50	.....	.....	.....	.....
6	J. P. McWilliams.....	Ripley	180	180	.....	.....	.....	.....
7	P. Kunkel.....	Mt. Sterling..	62	62	.....	.....	.....	.....
8	J. Alexander.....	do.....	60	60	.....	.....	.....	.....
9	Wm. Black.....	do.....	45	45	.....	.....	.....	.....
10	S. Johnson.....	do.....	52	52	.....	.....	.....	.....
11	Howard Bros	do.....	180	180	.....	.....	.....	.....
12	F. Rang	do.....	68	68	.....	.....	.....	.....
13	Ed. Six.....	do.....	42	42	.....	.....	.....	.....
14	Jas. McClary.....	do.....	40	40	.....	.....	.....	.....
	Strip Coal.....	.....	*225	225	.....	.....	.....	.....
	Totals—14 mines.....	.....	2,116	2,116	.....	.....	.....	.....

Mines in 1901, 10.

New mines, 9.

Abandoned mines, 5.

Mines in 1902, 14.

* Strip mine.

Brown County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$980	32	.....	32	.....	560	.....	180	560	\$1 00	.....	1	.....
420	33	.....	33	.....	240	.....	52	240	1 00	.....	2	.....
140	1	.....	1	.....	80	.....	50	80	1 00	.....	3	.....
406	32	.....	32	.....	232	.....	75	232	1 00	.....	4	.....
88	1	.....	1	.....	50	.....	35	50	1 00	.....	5	.....
315	2	.....	2	.....	180	.....	45	180	1 00	.....	6	.....
108	1	.....	1	.....	62	.....	31	62	1 00	.....	7	.....
105	1	.....	1	.....	60	.....	30	60	1 00	.....	8	.....
79	1	.....	1	.....	45	.....	24	45	1 00	.....	9	.....
91	2	.....	2	.....	52	.....	28	52	1 00	.....	10	.....
315	2	.....	2	.....	180	.....	50	180	1 00	.....	11	.....
119	1	.....	1	.....	68	.....	35	68	1 00	.....	12	.....
74	1	.....	1	.....	42	.....	26	42	1 00	.....	13	.....
70	1	.....	1	.....	40	.....	22	40	1 00	.....	14	.....
394	3	.....	3	.....	225	.....	40	225	.....	.....	.....	.....
\$3,704	23	.....	23	.....	2,116	.....	48.2	2,116	\$1 00	.....	.....	.....

Calhoun County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINE.								
1	Thomas Press Brick Co.....	Peruque, Mo..	3,429	.....	3,429	.....	.....	.....
	Totals—1 mine.....	.....	3,429	.....	3,429	.....	.....	.....

Mines in 1901, 1.

Mines in 1902, 1.

Greene County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Thos. Griffiths.....	Roodhouse ...	1,500	1,500	.....	.....	.....	.....
2	Ed. Axley.....	do	1,602	1,602	.....	.....	.....	.....
3	Ed. Griffiths.....	do	2,142	2,142	.....	.....	.....	.....
4	J. H. Revis.....	do	2,622	2,622	.....	.....	.....	.....
5	Col. Cummings.....	do	210	210	.....	.....	.....	.....
6	Sam Allen.....	do	175	175	.....	.....	.....	.....
7	Jas. Little.....	do	1,240	1,240	.....	.....	.....	.....
Totals—7 mines.....			9,491	9,491	.....	.....	.....	.....

Mines in 1901, 13.

New mines, 3.

Abandoned mines, 9.

Mines in 1902, 7.

Calhoun County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$3,429	14	7	21	.....	.....	3,429	204	.....	.....	221	....	....	1
\$3,429	14	7	21	.....	.....	3,429	204	.....	.....	221	....	....

Greene County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$2,250	10	1	11	.....	1,500	.....	120	1,500	\$1 00	42	....	....	1
2,403	3	1	4	.....	1,602	.....	260	1,602	1 00	.....	....	....	2
2,213	5	1	6	.....	2,142	.....	220	2,142	1 00	.....	....	....	2
2,933	5	1	7	.....	2,622	.....	215	2,622	1 00	50	....	....	4
315	1	.....	1	.....	210	.....	100	210	1 00	.....	....	....	5
263	.....	.....	.....	.....	175	.....	125	175	1 00	.....	....	....	6
1,560	1	.....	1	.....	1,240	.....	220	1,240	1 00	.....	....	....	7
\$14,237	30	5	35	.....	9,491	.....	180	9,491	\$1 00	92	....	....

Jersey County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Fisher & Budd	Brighton	810	810	.....	.....	.....	.....
2	L. A. Miller	do	1,040	1,040	.....	.....	.....	.....
3	Ed. Springman	do	400	400	.....	.....	.....	.....
4	John Burns	do	125	125	.....	.....	.....	.....
5	E. Harnish	do	82	82	.....	.....	.....	.....
6	Bott & Cairns	do	240	240	.....	.....	.....	.....
7	Jas. Fitzsimmons	do	192	192	.....	.....	.....	.....
8	L. Wagenglass	do	164	164	.....	.....	.....	.....
Totals			3,053	3,053	.....	.....	.....	.....

Mines in 1901, 10.

New mines, 2.

Abandoned mines, 4.

Mines in 1902, 8.

Jersey County—Fifth District—Continued.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$1,215	3	....	3	....	810	....	135	810	\$1 00	27	....	....	1
1,560	4	....	4	....	1,040	....	130	1,040	1 00	30	....	....	2
600	2	....	2	....	400	....	100	400	1 00	10	....	....	3
188	1	....	1	....	125	....	50	125	1 00	4	....	....	4
360	1	....	1	....	82	....	40	82	1 00	2	....	....	5
123	1	....	1	....	240	....	60	240	1 00	8	....	....	6
360	2	....	2	....	192	....	38	192	1 00	6	....	....	7
288	2	....	2	....	164	....	30	164	1 00	5	....	....	8
246	2	....	2	....	....	....	....	....	....	....	....	....	....
\$4,580	17	....	17	.....	3,053	.....	73	3,053	\$1 00	92	....	....	....

Macoupin County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Consolidated Coal Co., 6.....	Staunton	235,145	✓ 93,448	102,889	.....	4	38,804
2	Consolidated Coal Co., 7.....	..do	212,003	✓ 150,123	22,563	.....	3,917	35,400
3	Consolidated Coal Co., 8.....	Mt. Olive	237,871	✓ 117,437	77,233	.....	4,791	39,410
4	Consolidated Coal Co., 10.....	..do	211,844	✓ 149,176	19,893	.....	10,005	32,770
5	Consolidated Coal Co	Gillespie	90,316	✓ 51,737	14,905	.....	458	23,186
6	Consolidated Coal Co	Hornsby	58,803	✓ 43,663	251	.....	805	14,094
7	Carlinville Coal Co	Carlinville	99,494	✓ 23,037	61,100	.....	2,394	12,953
8	Nilwood Carbon Coal Co	Nilwood	49,250	✓ 8,250	40,000	.....	.....	1,000
9	Greenridge Mining Co	Greenridge	131,354	✓ 13,614	103,746	2,045	751	11,198
10	Girard Coal Co	Girard	67,152	✓ 56,028	1,538	8,350	1,188	5,048
11	Viriden Coal Co	Viriden	182,200	✓ 4,000	137,240	.....	.....	40,960
12	Chicago Viriden Coal Co .....	..do	256,442	✓ 141,353	19,344	1,597	31,600	62,518
13	Madison Coal Co., 5.....	Mt. Olive	231,698	✓ 131,898	33,160	4,200	6,120	56,320
Totals			2,063,572	983,794	633,862	11,192	62,063	372,661
LOCAL MINES.								
1	Lueking Bros	Fosterburg	1,300	1,300	.....	.....	.....	.....
2	Thos. Rand *	Chesterfield	1,400	1,400	.....	.....	.....	.....
3	W. H. A. Bodi * .....	..do	1,220	1,220	.....	.....	.....	.....
4	John Harbour, Jr., * .....	..do	622	622	.....	.....	.....	.....
5	G. B. Loper * .....	..do	1,420	1,420	.....	.....	.....	.....
6	Wm. Neil & Co. (Lessee)....	Bunker Hill	5,719	4,529	.....	.....	644	546
Totals			11,631	10,491	.....	.....	644	546
Totals—19 mines			2,075,253	994,285	633,862	11,192	62,707	373,207

Mines in 1901, 20.

Abandoned mine, 1.

Mines in 1902, 19.

* Pocket coal.

Macoupin County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$189,652	175	94	269	217,359	6,269	11,487	223			1,190	7	1	
171,283	148	82	230	199,828	725	11,450	220			1,170	1	3	
190,973	145	81	226	227,795	142	9,934	236			927	1	3	
172,226	146	98	244	192,773	7,989	11,082	230			897		4	
83,113	94	34	128	80,117	3,069	7,130	162			504		5	
56,352	48	39	87	50,585	1,085	7,133	157			332		6	
84,193	78	33	111	82,494	12,170	4,830	212	99,494	\$0 49	3,458		7	
44,913	60	19	79	40,000	8,250	1,000	170	49,250	49	2,000	1	8	
113,334	162	53	215	126,630	2,522	2,202	169	131,354	49	4,480	1	9	
64,608	100	32	132	60,362	6,790		260			830	1	10	
139,326	115	50	165	176,850	1,800	3,520	200	182,200	49	5,840		11	
188,140	245	97	342	246,224	4,669	5,549	189			3,365		12	
181,695	119	106	225	221,487	855	9,356	219			860		13	
\$1,679,708	1,635	818	2,453	1,819,760	56,335	84,673	204	462,298	\$0 49	25,853	5	35	
\$1,625	8	2	10		1,300		143	1,300	\$0 75		1	1	
2,100	4	1	5		1,400		150	1,400	75			2	
1,830	4	1	5		1,220		135	1,220	75			3	
933	2	1	3		622		150	622	75			4	
2,130	4	1	5		1,420		110	1,420	75			5	
7,711	10	5	15		5,719		250			60		6	
\$16,329	32	11	43		11,681		156	5,962	\$0 75	60	1		
\$1,696,047	1,667	829	2,496	1,922,564	68,016	84,673		468,260		25,913	5	36	

Montgomery County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Clover Leaf Coal Co.....	Coffeen	32,927	6,316	22,056	.....	50	4,505
2	Hillsboro Coal Co	Hillsboro	147,024	97,307	1,872	.....	14,028	33,817
3	Litchfield M. & P. Co	Litchfield	93,264	41,580	12,414	10,780	13,860	14,630
4	Montgomery Coal Co.....	Paisley	140,847	87,875	13,050	.....	15,022	24,900
5	Raymond Coal Co	Raymond	5,748	3,832	.....	.....	.....	1,916
Totals			419,810	236,910	49,392	10,780	42,960	79,768

Mines in 1901, 5.

Mines in 1902, 5.

Montgomery County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$ 26,360	41	28	69	30,256	1,161	1,611	132	32,927	\$0 49	883	1	....
124,799	100	53	153	137,085	6,609	3,330	240	4,149	49	905	....	....
86,979	78	39	117	72,474	16,718	4,072	235	93,264	49	3,518	1	....
119,206	162	48	210	134,661	2,636	3,650	222	140,847	49	800	1	....
7,319	13	4	17	288	5,310	150	225	5,748	74	23	....	....
\$364,663	394	172	566	374,663	32,434	12,713	210.8	276,935	\$0 49	6,129	3	....

1
2
3
4
5

Morgan County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	F. Wagstaffe.....	Murryville ...	3,200	3,200	.....	.....	.....	.....
2	W. T. Fisher	do	110	110	.....	.....	.....	.....
	Totals—2 mines.....	.....	3,310	3,310	.....	.....	.....	.....

Mines in 1901, 2.

Mines in 1902, 2.

Morgan County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$4,500 165	9 3	1 1	10 4	.....	3,200 110	.....	277 30	3,200 110	\$0 87½ 87½	100 4	.....	.....
\$4,965	12	2	14	.....	3,310	.....	153	3,310	\$0 87½	104	.....	.....

Sangamon County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Chicago Wilm. & V. Coal Co.	Thayer	286,281	131,776	8,506	26,841	9,110	110,048
2	Auburn & Alton Coal Co.	Auburn	50,000	10,000	30,000	.....	.....	10,000
3	Chicago Virden Coal Co., 2	do	222,390	112,025	36,665	.....	1,822	71,878
4	Chicago Virden Coal Co., 3	Chatham	116,289	70,345	5,354	.....	55	40,535
5	Black Diamond C. & T. Co.	Springfield ..	183,250	44,972	99,460	.....	7,706	31,112
6	Woodside Coal Co.	do	102,311	21,000	60,000	.....	3,411	17,900
7	Citizens' Coal & M. Co., A	do	86,151	31,338	31,487	4,252	2,714	16,390
8	Citizens' Coal & M. Co., B	do	87,179	44,927	15,372	3,587	4,710	18,583
9	West End Coal Co.	do	134,620	80,772	14,200	.....	8,378	31,270
10	Trutter Coal Co.	Pleasant Pl's	12,000	6,000	3,600	.....	.....	2,400
11	Williamsville Coal Co.	Selbytown	94,034	50,000	27,590	.....	944	15,500
12	Cantrall Coöpn. Coal Co.	Cantrall	97,466	46,917	29,836	.....	2,920	17,793
13	Jones & Adams Coal Co.	Springfield ...	194,128	83,733	54,325	.....	11,684	44,386
14	Republic Iron & Steel Co.	Ridgely	71,108	37,300	11,988	.....	3,244	18,576
15	Springfield Coöpn. Coal Co.	Springfield ...	120,000	96,700	.....	.....	.....	23,300
16	Barclay Coal & M. Co.	Barclay	67,267	41,815	10,527	.....	3,080	11,845
17	Spaulding Coal Co., 1	Spaulding	104,350	.....	41,000	.....	50,680	12,670
18	Spaulding Coal Co., 2	Bissell	100,507	56,406	30,000	.....	.....	14,101
19	Wabash Coal Co., 1	Dawson	108,345	41,449	27,138	.....	14,578	25,180
20	Riverton Coal Co., 1	Riverton	117,942	22,057	85,177	.....	762	9,946
21	Riverton Coal Co., 2	do	295,359	163,351	25,177	5,413	14,964	86,454
22	Riverton Coal Co., 3	Springfield ...	127,206	58,514	42,000	.....	.....	26,692
23	Starnes Coal M. Co.	do	169,446	76,804	65,914	.....	3,794	22,934
24	Sangamon Coal Co.	do	140,341	35,934	88,354	.....	1,797	14,256
25	Capitol Coöpn. Coal Co., 2	do	151,810	99,913	1,580	6,000	6,472	37,845
26	Victor Coal Co.	Pawnee	135,973	63,409	33,785	.....	.....	38,779
27	Madison Coal Co., 6	Divernon	263,651	153,201	3,260	6,150	5,011	96,029
28	Jefferson Coal M. Co.	Springfield ...	17,436	810	16,426	.....	.....	200
Totals			3,656,840	1,681,468	898,721	52,243	157836	751,188
LOCAL MINES.								
1	Lincoln Park Coal M. Co.	Springfield ...	14,822	7,980	3,182	.....	.....	3,660
2	J. P. Gorden	Saulsbury	1,325	1,020	.....	.....	.....	305
Totals			16,147	9,000	3,182	.....	.....	3,965
Totals—30 mines			3,672,987	1,690,468	901,903	52,243	157836	870,537

Mines in 1901, 30.

New mines, 1.

Abandoned, 1.

Mines in 1902, 30.

Sangamon County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	Number.
\$198,153	160	129	289	277,503	1,052	7,726	236			3,701			1
39,260	50	18	68	47,275	1,000	1,725	192	50,000	\$0 49	2,000			2
161,643	204	66	270	216,281	2,345	3,764	192	222,390	49	8,893	3	3	3
84,116	120	47	167	111,158	1,997	3,134	203	116,289	49	5,226		1	4
183,436	123	61	184	176,357	3,250	3,643	264	183,250	49.7	6,910		2	5
81,967	81	39	120	89,411	8,500	4,400	230	102,311	49.7	4,267			6
75,213	75	24	99	81,855	3,296	1,500	169	86,151	49.7	3,671	1		7
78,504	78	24	102	84,547	1,182	1,450	165	87,179	49.7	3,351			8
110,637	100	36	136	126,230	4,280	4,110	230	134,620	49.7	5,380			9
10,650	20	9	29	7,740	4,038	222	178	12,000	49.7	505			10
77,643	75	24	99	84,034	7,000	3,000	225	94,034	49.7	4,000			11
85,506	71	41	112	93,327	1,439	2,700	221	97,466	49.7	4,276			12
169,668	175	61	236	181,400	7,584	5,144	290	194,128	49.7	8,200			13
63,658	84	85	169	65,308	2,762	3,038	167	71,108	49.7	2,743			14
115,395	110	32	142	94,000	23,000	3,000	225	120,000	49.7	4,600			15
61,321	80	35	115	64,667	600	2,000	215	67,267	49.7	2,680			16
72,860	95	28	123	98,132	5,218	1,000	220	104,350	49.7	3,478			17
87,546	85	32	117	98,443	1,022	1,042	230	100,507	49.7	3,405			18
88,638	93	41	134	100,601	3,421	4,323	215	108,345	49.7	4,734			19
99,002	94	48	142	111,412	3,129	3,401	252	117,942	49.7	5,107	1		20
244,430	233	73	306	281,824		13,535	246	295,359	49.7	12,060	1		21
106,268	121	56	177	124,206	360	2,640	220	127,206	49.7	5,088	1		22
147,365	115	45	160	163,632	1,314	4,500	236	169,446	49.7	6,671	1		23
120,420	121	43	164	126,263	11,078	3,000	206	140,341	49.7	5,717			24
133,870	120	46	166	95,527	40,250	16,033	263	151,810	49.7	5,928	1		25
117,857	110	84	194	129,798	4,250	1,925	255	135,973	49	4,235			26
194,069	125	117	242	251,765	3,041	8,845	227			2,373			27
15,916	15	10	25	16,126	1,110	200	139	17,436	49.7	700			28
\$3,025,011	2,933	1354	4,287	3,398,322	147,518	111,000	219	3,106,908	\$0 49.7	129899	9	22	
\$20,922	18	10	28		14,390	432	195	14,822	\$0 49.7	575		2	1
2,090	2	1	3		1,225	100	190	1,325	49.7	53			2
\$23,012	20	11	31		15,615	532	193	16,147	\$0 49.7	628		2	
\$3,048,023	2,953	1365	4,318	3,398,322	163,133	111,532	.....	3,123,055	.....	130527	9	24	

Scott County—Fifth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	Wm. H. Bates & Co	Winchester...	19,730	19,130	.....	.....	.....	600
2	Wm. G. Parker	do	160	160	.....	.....	.....	.....
3	Benson Bros.	do	125	125	.....	.....	.....	.....
4	John McGuire	Alsey	1,232	1,232	.....	.....	.....	.....
5	Chas. McElwee	Winchester...	858	858	.....	.....	.....	.....
6	John Ratigan	do	40	40	.....	.....	.....	.....
7	H. H. Brockhouse	Chapin	400	400	.....	.....	.....	.....
8	M. Six	Exeter	140	140	.....	.....	.....	.....
9	Ed Berry	do	120	120	.....	.....	.....	.....
10	Wm. Kunds	do	130	130	.....	.....	.....	.....
11	Herman Pahlman	Bluffs	140	140	.....	.....	.....	.....
12	A. Clark	Neelyville	160	160	.....	.....	.....	.....
13	Jackson Jones	Winchester...	702	702	.....	.....	.....	.....
Totals—13 mines			23,937	23,337	.....	.....	.....	600

Mines in 1901, 11.

New mines, 5.

Abandoned mines, 3.

Mines in 1902, 13.

Scott County—Fifth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$28,995	34	10	44	17,530	1,600	600	302	19,730	\$1 00	750	.....	.....	1
250	1	1	2	.....	160	.....	130	160	1 00	6	.....	.....	2
219	2	1	3	.....	125	.....	60	125	1 00	4	.....	.....	3
1,848	5	1	6	.....	1,232	.....	200	1,232	1 00	40	.....	.....	4
1,287	5	1	6	.....	858	.....	180	858	1 00	30	.....	.....	5
70	1	1	2	.....	40	.....	30	40	1 00	2	.....	.....	6
700	2	.....	2	.....	400	.....	150	400	1 00	20	.....	.....	7
245	1	.....	1	.....	140	.....	70	140	1 00	5	.....	.....	8
210	1	.....	1	.....	120	.....	100	120	1 00	.....	.....	.....	9
228	1	.....	1	.....	130	.....	110	130	1 00	.....	.....	.....	10
245	1	.....	1	.....	140	.....	120	140	1 00	.....	.....	.....	11
280	1	.....	1	.....	160	.....	140	160	1 00	.....	.....	.....	12
1,228	3	1	4	.....	702	.....	192	702	1 00	27	.....	.....	13
\$35,835	58	16	74	17,530	5,807	600	137	23,937	\$1 00	884	.....	.....

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Macoupin	13	2,063,572	983,794	633,862	11,192	62,063	236,854	85,807	\$1,679,708
Montgomery..	5	419,510	236,910	49,392	10,780	42,960	63,074	16,694	364,663
Sangamon....	23	3,656,840	1,681,468	898,721	52,243	157,836	751,188	115,384	3,025,211
Totals and averages..	46	6,140,222	2,902,172	1,581,975	74,215	262,859	1,101,116	217,885	\$5,069,482

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Brown	14	2,116	2,116	.....	.....	.....	.....	.....	\$ 3,704
Calhoun	1	3,429	.....	3,429	.....	.....	.....	.....	3,429
Greene	7	9,491	9,491	.....	.....	.....	.....	.....	14,237
Jersey	8	3,053	3,053	.....	.....	.....	.....	.....	4,580
Macoupin....	6	11,681	10,491	.....	.....	644	546	.....	16,329
Morgan	2	3,310	3,310	.....	.....	.....	.....	.....	4,965
Sangamon....	2	16,147	9,000	3,182	.....	.....	3,057	908	23,012
Scott.....	13	23,937	23,337	.....	.....	.....	.....	600	35,835
Totals and averages..	53	73,164	60,798	6,611	.....	644	3,603	1,508	106,091
Totals district—all mines.	99	6,213,386	2,962,970	1,588,586	74,215	263,503	1,104,719	219,393	\$5,175,573

Whole number of mines reported for 1901, 102.
 Number of new mines opened during the year, 20.
 Number of mines abandoned during the year, 23.
 Whole number of mines reported for 1902, 99.

Fifth District—1902—Shipping Mines.

EMPLOYES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal cas- ualties.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
1,635	818	2,453	1,819,760	102,804	56,335	84,673	204.0	462,298	1,601,274	\$0 49	\$0 42	25,853	5	35
394	172	566	364,334	10,329	32,434	12,713	211.0	276,935	142,875	0 49	0 42	6,129	3	..
2,933	1,354	4,287	3,312,738	85,584	147,518	111,000	219.0	3,106,908	549,932	0 495	0 42	129,899	9	22
4,962	2,344	7,306	5,496,832	198,717	236,287	209,386	211.4	3,816,141	2,294,081	\$0 495	\$0 42	161,881	17	57

Fifth District—1902—Local Mines.

EMPLOYES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal cas- ualties.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
23	.....	23	.....	.....	2,116	.....	48.0	2,116	.....	\$1 00	.....	.....	..	..
14	7	21	.....	.....	.....	3,429	204.0	.....	3,429	.....	\$0 37	221	..	..
30	5	35	.....	.....	9,491	.....	180.0	9,491	.....	1 00	.....	92	..	..
17	.....	17	.....	.....	3,053	.....	73.0	3,053	.....	1 00	.....	92	..	..
32	11	43	.....	.....	11,681	.....	156.0	5,962	5,719	0 75	0 42	60	..	1
12	2	14	.....	.....	3,310	.....	.....	3,310	.....	0 87½	.....	104	..	..
20	11	31	.....	.....	15,615	532	193.0	16,147	.....	0 497	.....	628	..	2
58	16	74	.....	17,530	5,807	600	137.0	23,937	.....	1 00	.....	584	..	..
206	62	258	.....	17,530	51,073	4,561	141.5	64,016	9,148	\$0 875	\$0 395	2,081	..	3
5,168	2,396	7,564	5,496,832	216,247	287,360	212,947	157.0	3,910,157	2,303,229	\$0 495	\$0 42	163,962	17	60

SIXTH INSPECTION DISTRICT—1902

Counties: Bond, Clinton, Madison, Marion, St. Clair.

JOHN DUNLOP, *Inspector*, Centralia.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Illinois.

SIR:—In compliance with an act of the General Assembly of this State, defining the duties of the State Inspectors of coal mines and providing for the better preservation of the health and safety of persons employed in the mines of the State, I have the honor to herewith submit to you the seventh annual report of the Sixth Inspection District, for the year ended June 30, 1902. The coal producing counties of the district are Bond, Clinton, Madison, Marion and St. Clair. This report gives tabulated statements, by counties, of the number of mines operated, giving the names of operators and their postoffice address; the depth of coal below the surface, and its thickness; the geological number of the seams; a description of the plants of the different mines, showing their methods and systems of producing coal; the total output of all grades of coal and the disposition of the same; the average price paid per ton for mining; the value of lump and other grades of coal per ton at the mine, and the aggregate value of the output; the number of miners and other employes; the tonnage mined by hand, also by cutting machines; the number of mines using machines, and the number of machines in use; the number of kegs of powder used in blasting coal; the number of steam boilers used at the mines; the number of fatal and non-fatal accidents, and the number of widows and children dependent.

Coal production by counties, showing increase and decrease in each for the years ended June 30, 1901 and 1902.

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1901.	1902.		
Bond	208,668	100,740	.....	107,928
Clinton	644,664	724,462	79,798	.....
Madison	1,595,081	1,956,271	361,190	.....
Marion.....	829,326	881,821	52,495	.....
St. Clair.....	2,518,847	2,578,553	59,706	.....
Total.....	5,796,586	6,241,847	553,189	107,928
Decrease.....	.....	.....	107,928	.....
Total increase.....	.....	.....	445,261	.....

Four counties, St. Clair, Madison, Marion and Clinton, show an increase of 553,189 tons, while Bond county shows a decrease of 107,928 tons, making a net increase for the district of 445,261 tons. The decrease in Bond county is due to the burning of the top works and engine room of the Sorento Prospecting and Mining Co., causing the loss of about five months work when the coal trade was at its best.

Much trouble was experienced in getting proper returns from some of the operators, as they would only give the total production. The reason assigned for not giving the different grades was owing to the inequalities in the sizes of screens at the different mines, also that particular effort had been made to get a larger per cent of lump coal, which required continual vigilance. The operators did not like that these matters should be made public, especially to be used in the annual convention with the miners, as it might be taken advantage of by the miners when drawing up a scale of prices for the ensuing year.

The following is a summary taken from the statistical tables for the fiscal year 1902:

Number of counties in which coal is produced	5
Number of mines	112
Number of new mines	8
Number of mines abandoned	2
Number of shipping mines	81
Number of local mines	31
Total tonnage	6,241,847
Tons of lump coal	3,512,853
Tons of mine run	1,231,587
Tons of other grades	1,497,402
Tons shipped	5,367,505
Tons supplied to locomotives	261,823
Tons sold to local trade	298,492
Tons consumed and wasted at the mines	314,027
Average value of lump coal per ton at the mine	\$0.9446
Aggregate value of total product	\$4,919,933
Number of miners	5,570
Number of other employes	2,359
Total number of employes	7,929
Average number of days of active operation for shipping mines	201
Number of kegs of powder used	109,610
Number of steam boilers in use at mines	253
Number of mines using machines	33
Number of machines in use	243
Total tons cut by machines	2,238,044
Total tons mined by hand	4,003,803
Fatal accidents	19
Non-fatal accidents	79
Number of wives made widows	10
Number of children made fatherless	27
Number of tons produced for each fatal accident	329,518
Number of tons produced to each non-fatal accident	79,010
Number of persons employed to each fatal accident	417
Number of persons employed to each non-fatal accident	100

In making a comparison of the work done during this year with that of the year 1901, it is found that the output has increased 445,261 tons, Madison county furnishing the greatest proportion of this increase, 361,190 tons. This is due to the increased production of the mines of Donk Bros. Coal & Coke Co. Nos. 1, 2, and 3; the Kerns & Donniwald Coal Co.'s mine at Worden, and the Lumaghi Coal Co.'s No. 2 mine; all of these mines have almost reached their full capacity. The increase in St. Clair county is small considering the number of new mines that have been put down during the last

two years. In 1901 there were ten new mines reported and three for 1902; during that time only four mines have been abandoned. A further reason for the small increase is, on account of seven mines in and around Belleville being closed down; however, with the exception of two, they have now all resumed work.

In Marion county the increase has been produced by the mines at Centralia. Although owned by two separate companies they are worked under the same management, which seems to be a decided advantage, as the work is more evenly distributed, and the rules governing the three mines are the same. The mine at Sandoval was closed down for nearly five months; no reason being found for doing so. The mine at Kinmundy has been closed down all summer, and up to the present time work has not been resumed.

It will be noticed from the summary that the number of fatal accidents, per 1,000 persons employed, is less than last year. The number of persons killed in 1901 was 3.2 per 1,000, while this year the number is 2.4 per 1,000, which, in my opinion, ought to be still further reduced if proper precaution be taken.

The number of mines using machines has increased from 30 to 33; the increase in the number of machines is 25. This would indicate an increase in machine mined coal; however, the coal cut by machines has decreased from last year by 165,070 tons.

Improvements.—The Sorento Prospecting & Mining Co., Sorento, Bond county, owing to the top works and engine room having been destroyed by fire, has rebuilt its works, making a great improvement over the old works; the company has also put in self-dumping cages, so that coal can be dumped on either side of the shaft; a new railroad track has been built on the south side of the mine, connecting with the track of the C. B. & Q. railroad. These improvements put this mine among the best equipped in the district; the connection with the Burlington system also makes it one of the best located mines, as it furnishes a new and better market for the shipping of coal.

The Lenz Coal & Mining Co., Belleville, St. Clair county, has rebuilt the tipple and engine room at its mine. The engine room is now located on the west end of the shaft to make room for a new tipple, so that coal can be loaded on the cars of the East St. Louis & Belleville Electric Railway. This road has been hauling coal for over a year, and it runs parallel with the Southern Railway to East St. Louis.

The O'Fallon Coal & Mining Co., Belleville, St. Clair county, has taken down the old tipple which was in a dilapidated condition, and built a new one, making it more convenient to handle a larger output. The company has also put in the Kanty dumping cages, and is building the foundation for a new boiler and air compressor, with the intention of putting in mining machines.

The Centralia Manufacturing & Mining Co., Centralia, Marion county, has put in a third rail motor at its No. 4 mine. Considering the conditions of this mine, in which the grade runs as high as 10 per cent, the motor is giving good satisfaction. The company contemplates putting in a 20-foot fan.

The Consolidated Coal Co. has built a new tippie at its Richland mine, Belleville, St. Clair county.

New Mines.—In St. Clair county three new shafts are being sunk, one of them by the Beatty Brothers of Mascoutah, the location being near Rentchler. Joseph Guest and others are at work on a new mine, located near the power house of the East St. Louis & Belleville Electric Railway, between Belleville and East St. Louis. The other is located near the Start Brewery at Belleville, and is being sunk by a party of miners, and is intended for local trade. The other two will be shipping mines.

The Superior Coal & Mining Co. has sunk a new shaft; it is 7 by 14 feet and 160 feet to the coal. The thickness of the coal is six and a half feet. The company was about ready to hoist coal the 1st of July; the mine is equipped with a pair of engines, 11 by 16 inches, having a winding drum five feet in diameter, geared one in six; also an air compressor of the Norwalk type, having a capacity to supply 12 mining machines. Part of the machines are on the ground, ready to be put in; they were made by Herzler & Henninger of Belleville. The mine is located on the East St. Louis & Belleville Electric Railway, three miles west of Belleville.

In Madison county five new shafts have been put down to supply the local trade. Three of them are located near North Alton and two at Bethalto.

The Clover Coal Co. has reopened a shaft that was sunk 11 years ago; very little coal had been taken out, as the company that sunk the shaft had not sufficient capital to operate it. The mine was abandoned and allowed to fill with water. The parties forming the new company are residents of St. Louis and have organized with a capital stock of \$100,000. The water has been taken out of the mine; the company has built a new tippie, put in new engines and boilers, and is almost ready to commence hoisting coal. The shaft is located at New Douglas, Madison county, on the Toledo, St. Louis & Western Railway; its depth is 437 feet, and the thickness of the coal is nearly six feet.

Mine Fires.—The following named companies have had fires at their mines: The Donk Bros. Coal & Coke Co. had a fire at their No. 1 mine, destroying the tippie and washery; the loss is estimated at over \$60,000. The company rebuilt the tippie and resumed work in a very short time, and is now rebuilding the washery.

The tippie of the Madison Coal Co.'s No. 2 mine, Glen Carbon, Madison county, was destroyed by fire but was immediately rebuilt, and the mine was at work in less than 30 days.

The Sorento Prospecting & Mining Co., Sorento, Bond county, had a fire at its mine, which destroyed the tippie and hoisting engines.

Charles Hortman of Belleville had a fire at his mine, which burned down the tippie and engine room, destroying the engine and boiler.

Fatal Accidents.—July 3, 1901, James Domiski, miner, age 52 years, married, employed in the White Oak mine of the Consolidated Coal Co., Marissa, St. Clair county, was killed by a fall of soapstone. He leaves a widow and seven children in Russia.

July 17, 1901, Charles Staehle, miner, aged 22 years, single, employed in Conrad Reinecke's No. 2 mine, Belleville, St. Clair county, was fatally injured by a fall of slate. He died while being taken to his home.

Sept. 12, 1901, Andrew Donatti, miner, aged 35 years, married, employed in the Heinz Bluff mine of the Consolidated Coal Co., Marissa, St. Clair county, was killed by a fall of clod and slate. He leaves a widow and five children.

Sept. 16, 1901, John Wooters, miner, age 29 years, married, employed at the Darrow mine of the O'Fallon Coal & Mining Co., O'Fallon, St. Clair county, was fatally injured by the explosion of a keg of powder, caused by making a hole in the top of the keg with a pick. He leaves a widow.

Oct. 24, 1901, George Mars, loader, aged 17 years, single, employed at the Staunton No. 1 mine of the Staunton Coal Co., Staunton, Macoupin county, was instantly killed by a fall of rock at the face of his room. He was the only support of his widowed mother.

Oct. 31, 1901, Jerry Stahl, miner, aged 23 years, married, employed at the Royal mine of the Beck-Walker Coal Co., near Belleville, was instantly killed by a fall of top coal. He was undermining when it gave way without warning. He leaves a widow.

Nov. 21, 1901, David Parker, miner, aged 33 years, married, employed at Donk Bros. No. 1 mine, Collinsville, Madison county, was killed by a fall of slate. He leaves a widow and two children.

Nov. 22, 1901, Fred Ernest, miner, aged 50 years, married, employed at the Lumaghi Coal Co.'s No. 1 mine, Collinsville, Madison county, was killed by the premature discharge of a shot at the working face. He leaves a widow and four children.

Nov. 25, 1901, Charles Stolge, miner, aged 38 years, single, employed at the Heinz Bluff mine of the Consolidated Coal Co., Collinsville, Madison county, was killed by a fall of slate.

Dec. 11, 1901, John Reifer, cager, aged 30 years, single, employed at the Donk Bros. Coal Co.'s mine No. 2, Maryville, Madison county, was killed instantly while cleaning the cage; the engineer moved the cage upward, Reiper tried to get off but was caught between the cage and the side of the shaft.

Jan. 13, 1902, Henry Woodward, single, machine helper, age 19 years, single, employed at the Avery mine of the Walnut Hill Coal Co., Birkner, St. Clair county, was fatally injured by a fall of coal. He died two days after the accident.

Feb. 1, 1902, Joseph Marches, miner, aged 24 years, single, employed at Mine No. 1 of the Staunton Coal Co., Staunton, Macoupin county, was seriously injured by a fall of clod from which he died a short time after. He was the support of his mother and a sister.

Feb. 5, 1902, John Koch, laborer, aged 20 years, single, employed as a helper to the bricklayer, was putting up brick stoppings in the Breese mine of the Consolidated Coal Co., Breese, Clinton county. In coming out of the mine he was hoisted to the ground landing, when two men that were

on the cage with him got off; one of the men in getting off of the cage fell, making a noise; the engineer then began to hoist to the top landing; Hoch, when in the act of stepping off the cage while in motion, lost his balance and fell down the shaft, a depth of 400 feet, causing his death.

Feb. 27, 1902, Louis Kirgen, miner, aged 42 years, married, employed at the mine of the Odin Coal Co., Odin, Marion county, was killed by a fall of slate at the working face of his room. He leaves a widow and one child.

March 5, 1902, Samuel Mathews, miner, age 31 years, married, employed at the Royal mine of the Beck-Walker Coal Co., near Belleville, was instantly killed by a fall of slate. He leaves a widow and three children.

April 21, 1902, Robert Brown, driver, age 24 years, married, employed at the Richland mine of the Consolidated Coal Co., Belleville, St. Clair county, was seriously injured by a collision of loaded cars. In coming out to the bottom with a loaded trip he collided with a loaded car that had been detached from a trip of another driver ahead of him. He died May 2, 1902, and leaves a widow.

April 25, 1902, John McKernan, miner, aged 51 years, married, employed at the Walnut Valley mine of the Hippard Coal Co., Belleville, St. Clair county, was seriously burned by the explosion of a keg of powder, from which he died May 21, 1902. He leaves a widow and nine children.

May 7, 1902, Lutie Weathers, machine helper, aged 22 years, single, employed at the Lumaghi Coal Co.'s mine No. 2, Collinsville, Madison county, was killed by a fall of coal.

May 31, 1902, Harry Weber, miner, aged 52 years, single, employed at the No. 1 mine of Donk Bros. Coal and Coke Co., Collinsville, was killed by a fall of clod, at the face of his working place. He was found under the clod 24 hours after it fell. There was then no system at this mine of keeping check of men going to and from work, and having no relatives at the works accounts for the length of time before he was missed.

In addition to these accidents two men were killed at the Donk Bros. Coal Co.'s mine, Collinsville, Madison county, but were not in the employ of the company.

James Carson, aged about 46 years, was found Feb. 19, 1902, at the bottom of shaft No. 2 at Maryville.

Charles Mulbering, age unknown, fell from the stable loft at Mine No. 1, June 28, 1902, breaking his neck.

Respectfully submitted,

JOHN DUNLOP,

State Mine Inspector, Sixth District, Centralia.

Fatal Casualties—Sixth District, July 1, 1902.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependent.	Cause of Accident.
1901										
July 3	James Donriski.....	52	Miner.....	White Oak..	1	1	7	..	8	Falling soapstone ...
July 17	Chas. Staehle	22	Miner.....	Belleville...	..	..	1	..	1	Falling slate.....
Sept. 12	Andrew Donatti	35	Miner.....	Collinsville.	1	1	5	..	6	Falling clod and slate
Sept. 16	John Wooters	29	Miner.....	O'Fallon....	1	1	..	..	1	Explosion, keg of powder
Oct. 24	George Mars	17	Loader.....	Staunton .....	..	..	1	..	1	Falling rock
Oct. 31	Jerry Stahl	23	Miner.....	Belleville...	1	1	..	..	1	Falling coal
Nov. 21	Dave Parker.....	33	Miner.....	Collinsville.	1	1	2	..	3	Falling clod and slate
Nov. 22	Fritz Ernest	50	Miner.....	Collinsville.	1	1	4	..	5	Premature blast
Nov. 25	Chas. Stolze	38	Miner.....	Collinsville.	..	..	1	..	1	Falling slate.....
Dec. 11	John Reifer	30	Cager	Troy .....	..	..	1	..	1	Cage and shaft.....
1902										
Jan. 13	Henry Woodward	19	M. helper...	D'ch Hollow	..	..	1	..	1	Falling coal
Feb. 1	Joseph Marches.....	24	Miner.....	Staunton .....	..	..	1	..	1	Falling clod
Feb. 5	John Koch	20	Bricklayer..	Breese .....	..	..	1	..	1	Falling down shaft ..
Feb. 27	Louis Kirgan	42	Miner.....	Odin	1	1	1	..	2	Falling slate.....
Mar. 5	Sam Matthews	31	Miner.....	Belleville...	1	1	3	..	4	Falling slate.....
Apr. 21	Robert Brown	24	Driver	Belleville...	1	1	..	..	1	Pit cars
Apr. 25	John McKernin	61	Miner.....	Belleville...	1	1	9	..	10	Explosion, keg of powder
May 7	Lutie Weathers	22	M. helper...	Collinsville.	1	1	..	..	1	Falling coal
May 31	Harry Webber.....	52	Miner.....	Collinsville.	..	..	1	..	1	Falling clod
	Totals.....				11	11	31	8	52	

Recapitulation of Fatal Accidents—Sixth District, 1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Belleville.....	5	Miners.....	13	Fall of roof.....	10	Consolidated Coal Co....	1
Collinsville....	6	M'ers' helpers	2	Explosion of keg	2	Donk's, No. 1.....	2
Staunton	2	Driver.....	1	of powder	2	Donk's, No. 3.....	1
Breese	1	Loader.....	1	Premature blast...	1	Staunton, No. 1.....	2
Dutch Hollow ..	1	Cager.....	1	Caught between	1	Reinecke, No. 2.....	1
Odin	1	Laborer	1	cage and shaft...	1	Hientz Bluff	2
O'Fallon	1			Fall of coal.....	3	Darrow	1
Troy	1			Crushed between		Royal	2
White Oak.....	1			pit cars	1	Lumaghi, No. 1.....	1
				Fell down shaft....	1	"Avery," Walnut Coal Co	1
						Odin	1
						Richland	1
						Lumaghi, No. 2.....	1
						Walnut Valley	1
						White Oak	1
Totals	19		19		19		19

Non-Fatal Casualties—Sixth District, July 1, 1902.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependent.	Character and Cause of Injury	Time lost—days.
1901									
July 7	S. Rollend.....	25	Collinsville.	....	1	....	....	Fingers broken, pit car and sill	32
July 14	S. Shadrac.....	35	Troy.....	1	....	....	1	Hand injured, pitman and guide	30
Aug. 6	Austin Alley.....	35	Staunton.....	....	1	....	....	Toe broken, machine falling..	60
Aug. 12	Geo. Pettus.....	31	Collinsville.	1	....	....	1	Pelvis fractured, falling slate	90
Aug. 20	Jacob Reed.....	49	Belleville....	1	....	4	5	Collar bone broken, pit cars..	60
Aug. 22	August Nemo.....	33	Donkville....	....	1	....	....	Fingers broken, shoveling slate	30
Aug. 29	Albert Hamilton..	18	Marissa.....	....	1	....	....	Shoulder dislocated, falling slate and coal	30
Sep. 14	Joe Wright.....	26	Centralia....	1	....	....	1	Foot injured by motor.....	150
Sep. 16	Walter Kandall..	38	O'Fallon....	1	....	5	6	Body and face burned, explosion keg of powder	40
Sep. 21	Daniel Deer.....	47	Collinsville.	1	....	....	1	Arm broken, falling coal.....	42
Sep. 24	A. McGuire.....	35	Collinsville.	1	....	....	1	Arm broken, falling slate.....	50
Sep. 27	Worthy Brooks...	21	Edw'dsville.	....	1	....	....	Leg broken, falling clod.....	100
Oct. 7	Dan Monahan....	34	Glen Carbon..	....	1	....	....	Leg broken, falling clod.....	60
Oct. 7	Conrad Barna....	34	Staunton.....	1	....	....	1	Collar bone broken, pit car and roof	40
Oct. 9	Salmon Abbot...	24	Collinsville.	1	....	....	1	Jaw broken, falling slate.....	32
Oct. 15	Chas. Dowler....	36	Centralia....	....	1	....	....	Face bruised, flying coal.....	30
Oct. 16	Ben Zoff.....	28	Collinsville.	1	....	1	2	Arm cut, axe handle.....	33
Oct. 23	Jas. Smith.....	22	Donkville....	1	....	....	1	Body injured, placing car on track	30
Oct. 26	C. W. Williams...	46	Smithboro....	1	....	....	1	Back injured, pit car.....	30
Oct. 26	Jno. Barrowman..	18	Collinsville.	....	1	....	....	Leg broken, pit car.....	90
Oct. 26	A. Cosevige.....	22	Troy.....	....	1	....	....	Foot injured by timber.....	30
Oct. 30	Geo. Gunther....	40	Edw'dsville.	1	....	3	4	Ankle broken, falling clod....	36
Nov. 10	Walter Miller...	19	Glen Carbon..	....	1	....	....	Leg broken by pit car.....	100
Nov. 11	J. W. Vidarman..	24	Troy.....	....	1	....	....	Hand bruised, falling rock...	34
Nov. 25	John Clauber....	30	F'ch Village..	1	....	....	1	Eye put out, flying iron.....	60
Dec. 4	Wm. Koch.....	19	Trenton.....	....	1	....	....	Foot injured, pit car.....	70
Dec. 11	Albert Rice.....	26	Sorento.....	....	1	....	....	Leg broken, runaway mule....	60
Dec. 17	Ed. Chesnut.....	35	Sorento.....	1	....	3	4	Foot injured, falling coal.....	30
Dec. 27	Wm. Mound.....	57	Troy.....	....	1	....	....	Shoulder injured, falling coal	30
1902									
Jan. 7	Godleb Brown...	18	Belleville....	....	1	....	....	Leg broken, pit car and door..	100
Jan. 10	Jesse Alton.....	22	Sandoval.....	1	....	1	2	Leg broken, pit cars.....	100
Jan. 13	W. E. Ward.....	24	Collinsville.	....	1	....	....	Hand injured, kicked by mule	32
Jan. 15	John Johnson....	33	Centralia....	....	1	....	....	Back injured, falling coal.....	55
Jan. 15	Albert Jauzer....	45	Centralia....	1	....	....	1	Body injured, falling slate....	30
Jan. 22	Jno. Marchukl...	46	Staunton.....	1	....	....	1	Leg broken, falling coal.....	100
Jan. 23	Robert Eads.....	38	Glen Carbon..	1	....	5	6	Ankle broken, falling clod....	120
Jan. 24	Clar'nce Manning	22	Staunton.....	1	....	....	1	Leg broken, pit cars.....	60
Jan. 24	Fred Gutzler....	41	Centralia....	1	....	8	9	Body bruised, falling slate...	36
Jan. 25	W. Davidson.....	22	Collinsville.	....	1	....	....	Leg broken, pit car.....	90
Jan. 25	Geo. Southard...	17	Edw'dsville.	....	1	....	....	Hand injured, falling coal....	30
Feb. 10	Chas. Mochota....	46	Staunton.....	....	1	....	....	Leg broken, falling machine..	60
Feb. 14	Geo. Granich....	15	Belleville....	....	1	....	....	Leg broken, falling clod.....	100
Feb. 14	John Needham....	36	Collinsville.	1	....	1	2	Body and legs injured, kicked by mule	30
Feb. 16	A. Hecht.....	18	Troy.....	....	1	....	....	Eye cut, flying coal.....	41
Feb. 18	Wm. Ude.....	18	Belleville....	....	1	....	....	Body burned, explosion of powder	30
Feb. 22	Peter Ellinger...	36	Ogles Sta'n.	....	1	....	....	Jaw bone broken, pit cars.....	60
Mar. 6	Chas. A. Leeds...	48	Collinsville.	1	....	4	5	Jaw bone fractured, kicked by mule	30
Mar. 8	Wm. Cribfield....	28	Sorento.....	1	....	1	2	Back injured, falling coal....	100
Mar. 15	James Ackroyd...	24	Breese.....	....	1	....	....	Collar bone broken, pit cars...	50
Mar. 18	James Sneddon....	55	Collinsville.	1	....	10	11	Hand injured, fingers broke, falling slate	92
Mar. 19	Henry Wiedler...	25	Breese.....	....	1	....	....	Head and arms injured, falling clod	45
Mar. 20	Harvey Storna...	22	Staunton.....	....	1	....	....	Body injured, falling coal....	30
Mar. 26	Louis Stockman..	25	Belleville....	....	1	....	....	Fingers cut off, coupling cars.	50
Mar. 27	James Fitts.....	28	Odin.....	1	....	....	1	Arm broken, replacing car on track	60

Non-Fatal Casualties—Sixth District—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	Dependent.	Character and Cause of Injury	Time lost—days
Apr. 4	Ed. Hilling.....	30	Maryville...	1	....	....	1	Arm broken, pit cars.....	90
Apr. 4	Lawrence Jerrin..	24	St. Clair....	....	1	....	....	Back injured, falling slate....	30
Apr. 10	Clar'nce Manning	22	Staunton....	1	....	....	1	Ribs broken, kicked by mule..	30
Apr. 14	R. Eucat.....	27	Glen Carbon	....	1	....	....	Leg broken, falling coal.....	100
Apr. 25	T. Osburn.....	20	Collinsville.	....	1	....	....	Leg broken, falling clod and slate.....	102
Apr. 25	John Helming...	53	Collinsville.	1	....	....	1	Head injured, falling slate....	31
Apr. 25	Loula Schmidt...	39	Belleville...	1	....	....	1	Leg fractured, falling coal....	30
Apr. 25	John Bartley.....	22	Centrallia...	....	1	....	....	Knee injured, pit car.....	44
Apr. 26	Frank Crafton....	24	Belleville...	....	1	....	....	Arm broken, falling rock.....	90
Apr. 29	Chas. Emory.....	34	Centrallia...	....	1	....	....	Foot injured, falling slate....	30
Apr. 29	John Hadfield....	55	Collinsville.	1	....	4	5	Hand injured, pit cars.....	42
Apr. 30	John Schmacker..	27	Collinsville.	1	....	1	2	Leg broken, falling clod and slate.....	102
May 1	T. J. Newby.....	25	Staunton....	....	1	....	....	Finger cut off, machine and prop.....	40
May 8	Casper Snyder...	50	Centrallia...	1	....	1	2	Head and shoulders injured, pit cars.....	30
May 15	John Droy.....	46	Troy.....	1	....	5	6	Hip injured, pit cars and prop.	41
May 20	Wm. Ziegler.....	23	Centrallia...	1	....	....	....	Foot injured, pit car.....	40
May 22	Peter Balne.....	19	Breese.....	....	1	....	....	Collar bone broken, pit cars.....	38
May 23	Joe Romelin.....	35	Edw'dsville.	1	....	1	2	Collar bone broken, falling clod.....	60
May 26	Jas. Peterson....	18	Glen Carbon	1	....	5	6	Ankle broken, pit cars.....	102
June 7	A. J. Favor.....	23	Centrallia...	....	1	....	....	Hand injured, pit cars.....	*
June 7	August Keuter...	30	Maryville...	1	....	1	2	Arm broken, falling cage.....	*
June 13	W. Warner.....	55	Belleville...	1	....	5	6	Arm fractured and face injured, emory wheel.....	*
June 17	Wesley Batson...	40	Centrallia...	1	....	....	1	Leg broken, flying coal.....	*
June 23	Jesse Fox.....	35	Germant'wn	1	....	....	1	Back and shoulders bruised, falling slate.....	*
June 25	Luther Jones....	15	Centrallia...	....	1	....	....	Hand injured, sprag and pit car	*
Total.....				41	38	69	110		

* Not recovered July 1, 1902.

Total number injured	79
Not recovered July 1, 1902.....	6
Number recovered July 1, 1902.....	73
Time lost by men recovered	4,112 days
Average days lost per man recovered.....	52.05

*Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-
jugal Relations and Time Lost—Sixth District, 1902.*

Nature of Injuries.	Number.	Married.	Single.	Dependent.	TIME LOST.		Per cent of Injured.
					Total Days.	Average Days.	
Ankles broken	3	3	....	16	258	86	3.79
Arms broken	6	5	1	6	332	55.3	7.60
Arms cut off	1	1	....	....	33	33	1.26
Arms injured	1	1	....	6	....	....	1.26
Backs injured	4	2	2	3	185	46.2	5.06
Bodies injured	8	6	2	20	256	32	10.13
Collar bone broken	5	3	2	8	248	49.6	6.33
Eyes put out	2	1	1	1	101	50.1	2.53
Face injured	1	....	1	....	30	30	1.27
Feet injured	7	3	4	6	410	58.6	8.86
Fingers broken	2	....	2	....	62	31	2.53
Fingers cut off	2	....	2	....	90	45	2.53
Hands injured	8	3	5	17	260	32.5	10.13
Heads injured	3	2	1	3	106	35.3	3.79
Hip injured	1	1	....	6	41	41	1.27
Jaws broken	3	2	1	6	122	40.6	3.79
Legs broken	15	5	10	7	1,264	84.27	19.00
Legs injured	2	1	1	1	74	37	2.53
Pelvis fractured	1	1	....	1	90	90	1.27
Ribs broken	1	1	....	1	30	30	1.27
Shoulder injured	2	....	2	....	60	30	2.53
Toe broken	1	....	1	....	60	60	1.27
Totals, averages and percentages....	79	41	38	110	4,112	52.05	100.00

Recapitulation of Non-Fatal Casualties—Sixth District, 1902.

Residence.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Belleville.....	8	Blacksmith ..	1	Ax	1	Centralia Coal Co	12
Breese	3	Cagers	2	Falling coal	12	Consolidated Coal Co....	17
Centralia	12	Drivers	23	Falling down shaft..	1	Crown Coal Co	3
Collinsville ..	16	Firemen	1	Falling rock	21	Donk Bros. Coal Co.....	15
Donkville	2	Laborers	8	Flying coal	2	Germantown Coal Co....	1
Edwardsville..	4	Loader	1	Flying iron	1	Glendale Coal Co	1
French Vil'ge	1	Machinist	1	Guide	1	Henrietta Coal Co.....	1
Glen Carbon..	5	Mach. helpers	2	Machines	3	Hippard Coal Co	2
Germantown..	1	Mach. runners	4	Motor	1	O'Fallon Coal Co	1
Marissa	1	Miners	32	Mule	4	Madison Coal Co	8
Maryville	2	Mule feeder..	1	Pit cars	29	Murren Coal Co	2
Odin	1	Top boss	1	Powder explosions...	2	Oak Hill Coal Co	1
O'Fallon	1	Topman	1	Timber	1	Odin Coal Co	1
Ogles Station.	1	Trapper	1	....	....	Sandoval Coal Co	1
St. Clair	1	....	....	....	....	Sorento Coal Co	3
Sandoval	1	....	....	....	....	Staunton Coal Co	8
Smithboro	1	....	....	....	....	Taylor & Thomas	1
Sorento	3	....	....	....	....	White Oak Coal Co	1
Staunton	8	....	....	....	....	....	....
Trenton	1	....	....	....	....	....	....
Troy	6	....	....	....	....	....	....
Totals	79	....	79	....	79	....	79

Bond County—Sixth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Sorento P. & Mfg. Co	Sorento	100,740	54,206	15,204	.....	10,127	21,203
	Totals .....	.....	100,740	54,206	15,204	.....	10,127	21,203

Mines in 1901, 1.

Mines in 1902, 1.

Clinton County—Sixth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Consolidated Coal Co	Trenton	62,655	45,315	1,306	.....	1,398	14,636
2	Trenton Coal Co.....	do	104,763	76,756	.....	.....	28,007	.....
3	Consolidated Coal Co	Breese	168,183	36,721	117,281	.....	2,887	11,294
4	Breese Coal Co	do	218,064	81,568	81,495	.....	20,523	34,478
5	Muren Coal & Ice Co..2.....	New Baden...	147,383	108,640	.....	.....	14,497	24,246
6	Germantown Coal Co	Germantown..	23,414	13,849	77	2,138	3,064	4,286
Totals			724,462	362,849	200,169	2,138	70,376	88,940

Number of mines in 1901, 6.

Number of mines in 1902, 6.

Bond County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$81,925	135	65	200	86,212	9,308	5,220	136	35,295	\$0 49	1,242	....	3
\$81,925	135	65	200	86,212	9,308	5,220	136	35,295	\$0 49	1,242	....	3

Clinton County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$64,844	84	56	140	51,403	1,800	9,452	164	.....	.....	375	.....	1
131,991	110	60	170	95,963	4,520	4,280	214	.....	.....	600	.....	2
130,768	140	43	183	162,159	1,575	4,449	231	163,183	\$0 49	3,461	1	3
178,849	163	46	209	207,464	3,600	7,000	240	218,064	49	4,512	.....	4
115,019	180	70	250	141,383	3,000	3,000	260	.....	.....	2,800	.....	5
17,991	40	15	55	18,436	1,680	3,298	200	23,414	54	1,000	.....	6
\$639,462	717	290	1,007	676,805	16,175	31,479	218.1	409,661	\$0 49	12,745	1	5

Madison County—Sixth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Terminal Coal Co	Edwardsville.	4,269	464	3,350	.....	.....	456
2	Henrietta Coal Co	do	35,945	21,192	625	.....	7,064	7,064
3	Con. Coal Co., Abbey 3.....	Collinsville...	161,289	95,757	37,835	.....	9,202	18,495
4	Con. Coal Co. (Heinz Bluff) ..	do	146,522	57,713	72,744	.....	7,472	8,593
5	Con. Coal Co., Brookside	Troy	40,004	25,111	315	.....	4,025	10,553
6	Madison Coal Co., 2.....	Glen Carbon..	221,900	142,674	.....	.....	.....	79,226
7	Madison Coal Co., 3.....	Edwardsville.	84,552	48,133	.....	.....	.....	36,419
8	Madison Coal Co., 4.....	Glen Carbon..	255,875	152,212	.....	.....	.....	103,663
9	Donk Bros. C. & C. Co., 1	Collinsville...	190,828	98,588	29,320	519	8,401	54,000
10	Donk Bros. C. & C. Co., 2	Maryville.....	56,843	22,078	18,517	.....	2,127	14,121
11	Donk Bros. C. & C. Co., 3	Troy	115,493	65,140	5,581	6,812	3,458	34,502
12	Lumaghi Coal Co., 1.....	Collinsville...	116,850	72,450	6,847	.....	8,350	29,213
13	Lumaghi Coal Co. (Cantine 2) ..	do	119,394	84,139	.....	.....	7,010	28,245
14	Staunton Coal Co., 1.....	Staunton	343,944	206,671	43,730	.....	38,146	55,397
15	Kerns-Donniewald Coal Co.	Worden.....	39,278	18,562	10,659	.....	4,224	5,833
Totals			1,932,996	1,110,884	229,523	7,331	99,479	390,509
LOCAL MINES.								
1	Wm. Richardson	Moro	400	400	.....	.....	.....	.....
2	Sam McDonald	do	1,000	1,000	.....	.....	.....	.....
3	Charles Kabel	do	1,500	1,500	.....	.....	.....	.....
4	Malloy & Ball	North Alton..	2,123	2,123	.....	.....	.....	.....
5	Nathan Sydall	do	200	200	.....	.....	.....	.....
6	Frank Kortcamp	do	360	360	.....	.....	.....	.....
7	Perry Meyers	Bethalto	1,200	1,200	.....	.....	.....	.....
8	James Hill	Fosterburg ..	1,000	1,000	.....	.....	.....	.....
9	James Mitchell	Prairietown ..	1,200	1,200	.....	.....	.....	.....
10	John Spencer	Bethalto	500	500	.....	.....	.....	.....
11	John Schultz	East Alton ..	100	100	.....	.....	.....	.....
12	Bullock Bros	Collinsville...	4,892	3,193	.....	.....	1,317	352
13	Home Trade Coal Co.	Edwardsville.	8,500	5,806	173	.....	452	2,369
Totals.....			23,275	18,582	173	.....	1,769	2,751
Totals—28 mines.....			1,956,271	1,129,466	229,696	7,331	101,248	493,530

Mines in 1901, 30.

New mines, 9.

Abandoned, 11.

Mines in 1902, 28.

Madison County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$ 3,891	8	5	13	3,400	484	385	163	4,269	\$0 54	151	.....	1
27,343	45	16	61	30,558	3,227	2,160	164	35,945	49	719	.....	2
124,297	110	57	167	146,401	3,110	11,778	266	.....	.....	1,005	.....	6
115,504	80	48	128	139,042	628	6,852	265	.....	.....	992	2	3
35,129	56	27	83	31,569	3,014	5,421	206	40,004	49	861	.....	3
194,167	153	62	215	198,986	3,542	19,372	203	.....	.....	1,434	.....	1
72,676	58	28	86	71,609	9,490	3,453	247	.....	.....	766	.....	4
221,312	158	46	204	242,921	72	12,882	239	.....	.....	1,833	.....	5
126,164	251	156	407	185,161	597	5,070	261	65,624	49	2,210	2	10
36,786	177	79	256	54,499	542	1,802	244	56,843	49	1,229	.....	2
101,375	174	85	259	108,589	4,350	2,554	244	101,298	49	2,989	1	3
88,780	95	29	124	106,544	7,386	2,930	252	116,860	49	3,236	1	12
93,741	48	26	74	117,345	.....	2,049	242	.....	.....	1,227	1	.....
245,238	170	117	287	335,547	2,097	6,300	230	.....	.....	1,959	2	7
31,372	47	21	68	36,239	2,040	1,000	227	38,952	49	1,252	.....	15
<u>\$1,517,775</u>	<u>1,630</u>	<u>802</u>	<u>2,432</u>	<u>1,775,470</u>	<u>40,579</u>	<u>84,008</u>	<u>230</u>	<u>459,795</u>	<u>\$0 49</u>	<u>21,863</u>	<u>9</u>	<u>44</u>
\$ 500	1	1	2	.....	400	.....	100	400	\$0 75	5	.....	1
1,250	2	1	3	.....	1,000	.....	150	1,000	75	10	.....	2
1,875	2	1	3	.....	1,500	.....	180	1,500	75	20	.....	3
3,715	4	1	5	.....	2,123	.....	300	2,123	1 00	.....	.....	4
300	4	1	5	.....	200	.....	80	200	1 00	.....	.....	5
540	2	1	3	.....	360	.....	120	360	1 00	.....	.....	6
1,500	4	1	5	.....	1,200	.....	250	1,200	75	.....	.....	7
1,250	3	1	4	.....	1,000	.....	150	1,000	75	.....	.....	8
1,500	2	1	3	.....	1,200	.....	200	1,200	75	.....	.....	9
625	3	1	4	.....	500	.....	100	500	75	.....	.....	10
150	1	.....	1	.....	100	.....	80	100	1 00	.....	.....	11
6,474	5	2	7	.....	4,510	382	254	4,892	49	129	.....	12
9,346	8	6	14	.....	7,851	949	288	8,800	49	205	.....	13
<u>\$29,025</u>	<u>41</u>	<u>18</u>	<u>59</u>	<u>.....</u>	<u>21,944</u>	<u>1,331</u>	<u>175.5</u>	<u>23,275</u>	<u>\$0 62.1</u>	<u>369</u>	<u>.....</u>	<u>.....</u>
<u>\$1,546,800</u>	<u>1,671</u>	<u>820</u>	<u>2,491</u>	<u>1,808,409</u>	<u>62,523</u>	<u>85,339</u>	<u>.....</u>	<u>483,070</u>	<u>.....</u>	<u>22,232</u>	<u>9</u>	<u>44</u>

Marion County—Sixth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Centralia Min. & Mfg. Co., 2.	Centralia	259,047	159,836	18,451	.....	46,638	34,122
2	Pittenger & Davis Min. & Mfg. Co., 3 and 4.....	do	308,093	134,633	81,579	.....	8,584	83,297
3	Odin Coal Co	Odin	191,528	130,135	.....	.....	.....	61,393
4	Sandoval Coal Co	Sandoval	89,218	53,569	.....	.....	.....	35,649
5	Kinmundy Coal Co.....	Kinmundy....	30,220	24,056	.....	.....	.....	6,164
Totals			878,106	502,229	100,030	.....	55,222	220,625
LOCAL MINE.								
1	Salem Coal Co	Salem.....	3,715	.....	3,715	.....	.....	.....
Totals			3,715	.....	3,715	.....	.....	.....
Totals—6 mines.....			881,821	502,229	103,745	.....	55,222	220,625

Mines in 1901, 6.

Mines in 1902, 6.

Marion County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$209,644	183	112	295	228,721	15,481	14,845	243	259,047	\$0 45	6,533	....	7	1
228,603	205	109	314	269,970	10,275	28,848	250	308,093	45	8,490	....	5	2
151,325	167	58	225	174,584	10,739	6,205	247	5,543	45	1,515	1	1	3
67,515	125	71	196	82,718	3,500	3,000	141	89,218	45	2,823	....	1	4
27,138	41	21	62	21,793	3,704	4,723	220	30,220	50	400	....	....	5
<u>\$687,225</u>	<u>721</u>	<u>371</u>	<u>1,092</u>	<u>776,786</u>	<u>43,699</u>	<u>57,621</u>	<u>202.2</u>	<u>692,121</u>	<u>\$0 45</u>	<u>19,761</u>	<u>1</u>	<u>14</u>	
\$5,572	6	5	11	.....	2,787	928	175	3,715	\$0 50	80	....	....	1
<u>\$5,572</u>	<u>6</u>	<u>5</u>	<u>11</u>	<u>.....</u>	<u>2,787</u>	<u>928</u>	<u>175</u>	<u>3,715</u>	<u>\$0 50</u>	<u>80</u>	<u>....</u>	<u>....</u>	
<u>\$692,797</u>	<u>727</u>	<u>376</u>	<u>1,103</u>	<u>776,786</u>	<u>46,486</u>	<u>58,549</u>	<u>.....</u>	<u>695,836</u>	<u>.....</u>	<u>19,841</u>	<u>1</u>	<u>14</u>	

St. Clair County—Sixth District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Con. Coal Co., Richland.....	Belleville.....	35,472	20,857	7,789	.....	.....	6,826
2	Con. Coal Co., Schureman.....	do.....	43,217	16,766	20,496	.....	.....	5,955
3	Con. Coal Co., Green Mt.....	do.....	46,713	23,230	16,709	.....	.....	6,774
4	Con. Coal Co., Gartside, 4.....	do.....	52,869	21,566	25,965	.....	.....	5,338
5	Con. Coal Co., Rose Hill.....	do.....	26,962	10,441	12,941	.....	.....	3,580
6	Con. Coal Co., Pittsburg.....	do.....	22,600	20,340	.....	.....	.....	2,260
7	Con. Coal Co., White Oak.....	Marissa.....	56,538	18,189	32,179	.....	.....	6,170
8	Con. Coal Co., Marissa.....	do.....	66,094	31,154	27,506	.....	1,500	5,934
9	Johnson Coal Co., O. K.....	do.....	30,421	25,500	.....	.....	2,460	2,461
10	Eureka Coal Co.....	do.....	43,397	27,813	9,330	.....	2,084	4,170
11	Advance Coal Co.....	do.....	10,000	1,758	7,511	.....	204	527
12	Borders Coal Co.....	do.....	40,500	20,200	13,500	.....	500	6,300
13	Mo. & Ill. C. Co., Wilderman.....	Belleville.....	18,235	9,640	3,677	.....	2,199	2,722
14	Mo. & Ill. Coal Co., Freeburg.....	Freeburg.....	44,832	19,866	17,589	.....	5,627	1,750
15	Missouri & Illinois Coal Co.....	Rentchler.....	85,355	53,610	18,643	.....	8,363	4,739
16	Glendale Coal Co., 1.....	Belleville.....	79,600	61,500	.....	2,400	.....	15,700
17	Glendale Coal Co., 2.....	do.....	33,400	28,100	.....	.....	.....	5,300
18	Oakland Coal Co.....	do.....	77,671	31,020	41,019	.....	3,755	1,877
19	Madison Coal Co., Crown.....	do.....	107,222	60,914	19,808	.....	.....	26,500
20	Lenz C. & Min. Co., Harmony.....	do.....	41,985	19,672	11,117	.....	7,464	3,732
21	Conrad Reinecke, 2.....	do.....	53,759	35,840	11,946	.....	.....	5,973
22	Donk Bros. Coal & Coke Co.....	do.....	23,408	13,101	6,967	.....	28	3,312
23	Muren Coal & Ice Co., 1.....	do.....	107,506	44,104	60,477	.....	527	2,398
24	Highland Coal Co.....	do.....	36,930	29,511	.....	.....	1,351	6,068
25	Oak Hill Coal Co.....	do.....	35,429	24,412	615	.....	5,075	5,329
26	Skellet Coal Co.....	do.....	45,861	31,549	6,371	.....	1,902	6,039
27	Hippard Coal Co., 1.....	do.....	73,604	33,736	23,000	.....	11,245	5,623
28	Hippard Coal Co., 2.....	do.....	24,577	16,251	.....	.....	2,315	6,011
29	Humboldt Coal Co.....	do.....	31,812	21,208	.....	.....	7,070	3,534
30	Summit Coal Co.....	do.....	40,835	13,580	22,671	.....	.....	4,584
31	Beck-Walker Coal Co., Royal.....	do.....	64,328	31,460	26,320	.....	1,216	5,332
32	Chas. Hortman.....	do.....	45,000	39,000	.....	.....	.....	6,000
33	Lake Coal Co., Johnson.....	do.....	10,000	.....	9,900	.....	.....	100
34	Belleville & O'Fallon Coal Co.....	do.....	55,435	42,453	.....	.....	4,435	8,547
35	Valley C. & Mig. Co., Birkner.....	do.....	57,343	38,229	.....	.....	.....	19,114
36	M. Whittmore, Knecht.....	Birkner Sta.....	14,932	.....	14,932	.....	.....	.....
37	Lebanon Coal & Min. Ass'n.....	Lebanon.....	80,436	77,156	.....	1,070	1,070	1,140
38	O'Fallon Coal & Min. Co.....	O'Fallon.....	51,683	30,849	.....	103	14,509	6,222
39	Joseph Taylor, 1.....	do.....	96,989	18,762	65,961	.....	7,279	4,997
40	Joseph Taylor, Mentor.....	do.....	83,644	51,849	8,142	.....	11,288	12,365
41	Ruby Mining Co., Ruby.....	Caseyville.....	41,843	33,948	.....	.....	4,795	3,100
42	Walnut Hill Coal Co., Avery.....	Birkner Sta.....	102,986	53,812	37,111	.....	2,666	9,397
43	Tirre & Sons Coal Co., 1.....	Lenzburg.....	44,000	26,500	.....	.....	11,000	6,500
44	Kolb Coal Co., 1.....	Mascoutah.....	92,190	51,891	23,149	.....	5,146	12,004
45	Kolb Coal Co., Vinegar Hill.....	do.....	48,782	27,582	12,000	.....	.....	9,200
46	Sunlight Coal Co., Becker.....	Freeburg.....	36,287	27,000	.....	.....	4,500	4,787
47	Dutch Hollow C. Co., Randle.....	do.....	38,810	28,631	2,179	.....	.....	8,000
48	Enterprise Min. Co., Ogden.....	Rentchler.....	17,517	15,093	.....	.....	.....	2,424
49	Millstadt Coal Co.....	Millstadt.....	16,600	13,000	.....	.....	1,000	2,600
50	Fred Murphy.....	Belleville.....	22,000	.....	22,000	.....	.....	.....
51	Reeb Coal Co.....	do.....	22,245	20,245	.....	.....	.....	2,000
52	St. Louis & O'Fallon Coal Co.....	do.....	34,305	.....	34,305	.....	.....	.....
53	Dutch Hill Coal Co.....	New Athens.....	12,000	9,000	1,000	.....	.....	2,000
Totals.....			2,526,162	1,421,898	674,725	3,573	132,563	234,092

St. Clair County—Sixth District—Continued.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.		
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	Number.
\$23,503	30	12	42	32,941	113	2,418	183			347	1		1
29,249	29	17	46	40,063	41	3,114	211			260		1	12
31,635	27	13	40	43,954	8	2,751	208			274			3
36,763	40	19	59	50,089	40	2,740	219			361			4
18,127	20	7	27	26,111		851	201			205			5
15,481	22	7	29	22,210	340	50	215	22,600	\$0 49	830			6
38,310	38	20	58	53,024	186	3,328	233			538	1	1	7
52,142	45	16	61	64,421	773	900	210	66,094	49	1,644			8
24,426	25	11	36	28,921		1,500	215			287			9
32,126	40	13	53	40,290	1,307	1,800	175	3,015	49	466			10
7,778	13	4	17	9,620	176	204	170	10,000	49	150			11
29,490	30	9	39	37,200	2,450	850	176	40,500	49	910			12
12,632	35	11	46	15,451	65	2,722	110	18,238	49	538			13
32,925	42	11	53	43,064	18	1,750	173	44,832	49	1,163			14
64,584	60	15	75	80,322	294	4,739	185	85,355	49	2,042			15
57,670	76	19	95	69,500	3,500	6,300	222			1,074			16
26,360	29	8	37	26,200	3,700	3,500	222	33,400	49	946			17
57,333	32	13	45	75,517	714	1,440	240			420			18
80,340	90	36	126	96,564	851	9,807	284	107,222	49	2,611		3	19
32,507	60	15	75	41,385		600	246	1,000	49	1,000			20
34,229	52	22	74	51,059	2,000	700	153	53,759	49	1,276	1		21
17,746	36	33	69	23,152		256	122	23,408	49	1,194			22
71,140	100	35	135	99,346	5,160	3,000	230	36,085	49	2,000			23
28,489	35	10	45	25,609	8,815	2,507	225	36,930	49	928			24
25,625	25	6	31	33,362	615	1,452	242	35,429	49	855			25
33,183	50	16	66	40,021	1,671	4,169	217	20,485	49	758			26
47,842	50	20	70	70,939	865	1,800	200	73,604	49	2,327	1		27
14,528	33	12	45	21,677		3,000	120	24,577	49	701			28
20,501	25	7	32	25,812	5,000	1,000	269	31,812	49	900			29
27,970	35	9	44	40,123	132	580	204	40,835	49	1,215			30
54,457	110	31	141	59,328		5,000	291	14,328	49	1,140	2		31
36,600	25	5	30	34,700	10,000	300	200	45,000	49	250			32
7,445	30	9	39	9,900		100	77	10,440	49	375			33
41,720	49	21	70	39,709	9,657	7,069	198	25,442	49	949			34
45,875	33	31	64	56,583		760	190	57,343	49	1,772			35
12,692	20	9	29	14,500		432	200	14,932	49	398			36
95,012	70	20	90	50,236	20,000	10,200	221	5,000	49	1,000			37
41,324	49	18	67	50,391	114	1,178	179	51,683	49	1,275	1		38
67,574	72	23	95	90,382	3,465	3,142	242	96,989	49	2,387			39
58,888	74	23	97	76,100	3,528	4,016	209	83,644	49	1,707			40
33,726	60	11	71	38,743		3,100	150	41,843	49	1,400			41
76,673	68	14	82	97,645	250	5,191	213			900	1		42
29,060	41	14	55	30,800	4,300	8,900	205	44,000	49	597			43
72,320	76	22	98	77,549	7,600	7,041	216	72,000	49	2,300			44
33,225	36	7	43	47,282		1,600	204	48,782	49	1,390			45
27,254	33	9	42	33,427	1,860	1,000	220	36,287	49	995			46
30,943	40	10	50	36,000	2,000	810	225	38,810	49	900			47
13,314	17	9	26	17,165	40	312	150	17,517	49	602			48
13,910	21	5	26	13,300	3,000	300	200	16,600	49				49
15,400	15	4	19	18,000	4,000		300	22,000	49	300			50
18,620	27	6	33	18,581	3,364	300	200	22,245	49	800			51
32,590	58	12	70	33,555		750	200	34,305	49	1,307			52
11,050	20	6	26	10,000	1,500	500	200	12,000	49	390			53
\$1,898,605	2,268	765	3,033	2,280,921	113,522	131,719	205	1,619,930	\$0 49	51,317	8		13

St. Clair County—Sixth District—1902—Continued.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	James Beatty	Mascoutah ...	4,539	4,179	.....	.....	.....	360
2	Wm. Pistor	Millstadt	3,233	3,233	.....	.....	.....	.....
3	August Ebel.....	Belleville	7,700	2,200	5,000	.....	.....	500
4	Benj. Johnson	do	924	924	.....	.....	.....	.....
5	John Harst	do	4,948	3,292	1,656	.....	.....	.....
6	Frank Sergent.....	do	6,397	3,742	1,402	.....	402	851
7	Geo. Schmidt	Smithton	340	340	.....	.....	.....	.....
8	Louis Grosman	do	910	910	.....	.....	.....	.....
9	Dietrich Bros.	Freeburg	1,500	1,500	.....	.....	.....	.....
10	M. Griffith	Caseyville	1,000	1,000	.....	.....	.....	.....
11	Georgetown Road Coal Co.	Belleville	2,500	2,500	.....	.....	.....	.....
12	John Marshall	Caseyville.....	2,000	2,000	.....	.....	.....	.....
13	Reeb Bros.	Belleville	5,000	5,000	.....	.....	.....	.....
14	Ritchie & Co.....	French Vill'ge	2,000	2,000	.....	.....	.....	.....
15	James Slement.....	do	1,800	1,800	.....	.....	.....	.....
16	James Taylor	Belleville.....	6,600	6,600	.....	.....	.....	.....
17	I. E. Young	French Vill'ge	1,000	1,000	.....	.....	.....	.....
Totals			52,391	42,220	8,058	.....	402	1,711
Totals—70 mines.....			2,578,553	1,464,108	682,783	3,573	132,965	235,803

Mines in 1901, 67.

New mines, 3.

Mines in 1902, 70.

St. Clair County—Sixth District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$5,242	3	2	5	.....	4,179	360	300	4,539	\$0 50	216	.....	.....	1
4,041	6	1	7	.....	3,233	.....	242	3,233	62	.....	.....	.....	2
6,830	6	3	9	.....	7,600	100	275	7,700	49	240	.....	.....	3
1,165	2	2	4	.....	924	.....	250	924	49	18	.....	.....	4
6,842	2	2	4	.....	4,948	.....	270	4,948	49	72	.....	.....	5
7,958	5	5	10	.....	5,346	1,051	273	6,397	49	172	.....	.....	6
425	2	1	3	.....	340	.....	150	340	49	.....	.....	.....	7
1,137	2	2	4	.....	900	10	200	910	49	36	.....	.....	8
1,875	4	2	6	.....	1,400	100	200	1,600	49	30	.....	.....	9
1,250	2	2	4	.....	1,000	.....	200	1,000	50	30	.....	.....	10
3,125	3	2	5	.....	2,500	.....	300	2,600	49	50	.....	.....	11
2,500	3	1	4	.....	2,000	.....	180	2,000	50	40	.....	.....	12
6,250	5	2	7	.....	5,000	.....	300	5,000	49	100	.....	.....	13
2,500	4	1	5	.....	2,000	.....	180	2,000	50	40	.....	.....	14
2,250	3	1	4	.....	1,800	.....	180	1,800	50	36	.....	.....	15
8,250	5	2	7	.....	6,600	.....	300	6,600	50	132	.....	.....	16
1,250	4	2	6	.....	900	100	180	1,000	50	18	.....	.....	17
\$62,880	62	33	95	.....	50,670	1,721	234.1	52,391	\$0 50	1,230	.....	.....
\$1,961,485	2,330	798	3,128	2,280,921	164,192	133,440	.....	1,672,321	.....	52,547	8	13	

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bond	1	100,740	54,206	15,204	.....	10,127	21,203	.....	\$81,925
Clinton	6	724,462	362,849	200,159	2,138	70,376	52,138	36,802	639,462
Madison	15	1,932,996	1,110,884	229,523	7,331	99,479	390,509	95,270	1,517,775
Marion	5	878,106	502,229	100,030	.....	55,222	154,112	66,513	687,225
St. Clair	53	2,526,162	1,421,888	674,725	3,573	132,563	234,092	59,321	1,893,605
Totals and averages..	80	6,162,466	3,452,056	1,219,641	13,042	367,767	852,054	257,906	\$4,824,992

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Madison	13	23,275	18,582	173	.....	1,769	2,369	382	\$29,025
Marion	1	3,715	.....	3,715	.....	.....	.....	.....	5,572
St. Clair	17	52,391	42,220	8,059	.....	402	1,251	460	62,880
Totals and averages..	31	79,381	60,802	11,946	.....	2,171	3,620	842	\$97,477
Totals district—all mines..	.....	6,241,847	3,512,858	1,231,587	13,042	369,938	855,674	258,748	\$4,922,469

Whole number of mines reported in 1901, 110.

Number of new mines opened during the year, 12.

Number of mines exhausted or abandoned during the year, 11.

Whole number of mines reported for 1902, 111.

Sixth District—1902—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.					Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties. Number non-fatal cas't's.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.	By hand.		By machine.	Hand mining.	Machine mining.			
135	65	200	85,749	463	9,308	5,220	136	35,295	65,445	\$0.49	\$0.42	1,242	3	
717	290	1,007	640,308	36,500	16,175	31,479	218	409,661	314,801	49	44	12,748	5	
1,630	802	2,432	1,775,470	32,939	40,579	84,008	230	459,795	1,473,201	49	42	21,863	44	
721	371	1,092	659,059	117,727	43,699	57,621	220	692,121	185,985	454	38	19,761	14	
2,268	765	3,033	2,206,727	74,194	113,522	131,719	202	1,619,930	906,232	49	42	51,317	13	
5,471	2,293	7,764	5,367,313	261,823	223,283	310,047	201	3,216,802	2,945,664	\$0.482	\$0.42	106,931	19	

Sixth District—1902—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.					TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.			
41	18	59	.....	.....	21,944	1,331	172	23,275	.....	\$0.621	.....	369	...	
6	5	11	.....	.....	2,787	928	175	3,715	.....	50	.....	80	...	
62	33	95	.....	.....	50,670	1,721	234	52,391	.....	543	.....	1,230	...	
109	56	165	.....	.....	75,401	3,980	194	79,381	.....	\$0.538	.....	1,679	...	
5,580	2,349	7,929	5,367,313	261,823	298,684	314,027	....	3,296,183	2,945,664	.....	.....	108,610	19	79

SEVENTH INSPECTION DISTRICT--1902.

SEVENTH ANNUAL REPORT.

Counties: Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Wabash, Washington, Williamson.

EVAN D. JOHN, *Inspector*, Carbondale.

HON. DAVID ROSS, *Secretary*,

State Bureau of Labor Statistics, Springfield, Illinois.

SIR:—In compliance with section 12 of the general mining law of the State of Illinois, I have the honor to submit herewith the seventh annual report of coal mines in the seventh inspection district, for the year ended June 30, 1902. This district comprises the coal producing counties of Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Wabash, Washington, and Williamson.

The report presents tabulated statements showing the number of mines in operation in each county, both shipping and local, during the year; the number of new and abandoned mines; the total number of persons employed at each mine; the total tons produced and the production of the different grades, consisting of lump, mine run, egg, nut, pea or screenings and the slack or waste coal at the mines; the average value of all grades, and the average value of the total product; the fatal and non-fatal casualties in and around the mines; the number of widows, and the number of children left fatherless, the men who lost their lives; the average number of days worked; the quantity of powder used; the number of machines used, and the total tons of coal produced by machines.

The following summary is taken from the statistical tables for the year:

Number of counties producing coal.....	11
Total number of mines.....	127
Number of shipping mines.....	58
Number of local mines.....	69
Number of mines abandoned during the year.....	16
Number of new mines opened during the year.....	13
Number of mines using machines.....	10
Number of machines in use.....	65
Tons of coal cut by machines.....	1,064,456
Total tonnage.....	4,378,500
Tons of lump coal.....	1,484,779
Tons of mine run coal.....	977,841
Tons of egg coal.....	410,579
Tons of nut coal.....	508,537
Tons of pea or screenings.....	868,601
Tons of slack or waste coal.....	128,163
Aggregate value of total product.....	\$3,628,417
Average value of lump coal per ton at mines.....	\$1,038
Average value of mine run coal per ton at mines.....	\$0,859
Average value of egg coal per ton at mines.....	\$0,94
Average value of nut coal per ton at mines.....	\$0,705
Average value of screenings per ton at mines.....	\$0,556
Average value of slack or waste coal per ton at mines.....	\$0,155
Number of miners.....	4,084
Number of other employes under ground.....	1,012
Number of boys employed under ground.....	136
Number of employes above ground.....	715
Total number of employes.....	5,947
Average number of days of operation for shipping mines.....	177.7
Number of kegs of powder used in blasting coal.....	83,002
Number of fatal accidents.....	15
Number of non-fatal accidents.....	48
Number of widows.....	8
Number of children left fatherless.....	22
Number of tons of coal produced for each fatal accident.....	291,900
Number of tons of coal produced for each non-fatal accident.....	91,219
Number of persons employed to each fatal accident.....	349
Number of persons employed to each non-fatal accident.....	124

Fatal Accidents. July 13, 1901, Robert Johnson, miner, age 36 years, married, was killed instantly by a fall of slate at the face of his working room in the Western Anthracite Coal & Coke Co.'s mine, located at Sparta, Randolph county. Deceased was working off some coal which had been shattered by the blast which had been fired the previous night. This coal was the only support the slate had and when worked out the slate fell with the result as stated.

August 20, 1901, Arthur Snodgrass, driver, age 28 years, married, leaves a widow and two children, was killed instantly by a fall of rock in the first south entry of the White Walnut Coal Co.'s mine, located at Pinckneyville, Perry county. Deceased was hauling a loaded pit car from the entry when a piece of rock weighing about 150 pounds fell killing him.

November 4, 1901, John Burlison, miner, single, age 35 years, and Thomas Crandall, miner, married, age 50 years, leaving a widow and five children, were both instantly killed by a fall of roof in their working place in the Tamaroa Colliery Co.'s mine, Tamaroa, Perry county. Burlison and Crandall were working together taking off the skip of coal along an entry that had fallen in and had been abandoned. They had worked off a strip 9 feet wide by 30 feet long, and had set timber along the edge of the old entry; while at work loading a pit car the rock above them gave away. They had evidently made an attempt to get out, as both were caught about 12 feet from the car. It required several hours to get their dead bodies from under the fall.

Dec. 18, 1901, Ed Jarrett, top laborer, age 44 years, married, leaves a widow and four children, was instantly killed by falling down the shaft of the Willis Coal and Mining Co., Willisville, Perry county. Deceased was caging at the top of the shaft; the gate being off, he mistook the south cage-way for the north and pushed the car into the shaft, falling to the bottom with it, a distance of 115 feet.

Jan. 14, 1902, William Butcher, driver, age 27 years, married, was killed by being caught between a loaded pit-car and the side of the entry in the mine of the Chicago and Carterville Coal Co., at Herrin, Williamson county. Deceased was hauling a loaded pit-car through a cross cut from the second west entry to the first west entry on the north side. In attempting to get on the front end of the car he slipped and was caught between the car and the side of the entry. He died a few minutes after the accident. He leaves a widow and one child.

Jan. 29, 1902, C. B. Carney, miner, age 52 years, married, leaves a widow and seven children, was instantly killed by being struck on the head and body with coal flying from a blast, in the Carterville Coal Co.'s mine in Williamson county. Deceased had prepared a blast, and when firing time came in the evening he went to light his shot; the instant he put his lamp to the squib the shot exploded. Whether this was due to a defective squib or that the deceased pushed his lamp under the powder part of the squib is not known.

Jan. 29, 1902, Abraham Buckles, miner, age 41 years, single, was severely injured by being struck on the head with loose coal flying from a blast in the St. Louis & Big Muddy Coal Co.'s mine, Dewmain, Williamson county. Deceased had gone into his room to light a shot, and in making his retreat was struck by flying coal. It is not known whether he was struck by coal from his own blast or from the adjoining room as it was found upon examination that a blast in the adjoining room had blown through the pillar at the time of the accident. Deceased died from his injuries five hours later.

Jan. 22, 1902, George Pickering, miner, age 15 years, was severely crushed about the head and body by a fall of slate at the face of his working room in the Davenport Coal Co.'s mine, Ledford, Saline county. The deceased was working with his father; both were loading a pit-car when the slate fell, crushing the boy's head so severely that he died 15 hours after the accident. The father escaped uninjured.

Feb. 15, 1902, Albert Cochran, age 15 years, employed as a trapper by the Willis Coal & Mining Co., was crushed between loaded cars near the bottom of the shaft. The boy's duty was to attend to the north door which was a short distance from the bottom. As soon as the driver would go inside the boy would come to the bottom to couple and uncouple the cars, which was no part of his work; he had been told by the mine manager and driver to stay at the door and attend to it. The day of the accident the deceased left his door and came to the bottom and attempted to couple the incoming cars to the standing cars; while in this act his head was caught and crushed, which caused his death.

Feb. 24, 1902, Aleck Calcatarra, miner, age 41 years, married, leaves a widow and three children, was severely injured about the body by a fall of slate in the Big Muddy Coal & Iron Co.'s shaft No. 7, Herrin, Williamson county. Deceased was cautioned by the mine examiner to be careful of some loose slate at the face of his working place; in reply he said that he could take care of himself. He was mining off some coal that had been loosened by a blast the previous day, when the slate fell which caused his death five hours later.

March 25, 1902, Fred Divers, miner, aged 48 years, single, was killed by a fall of top coal at the face of his working place, in the fourth north entry of the St. Louis & Big Muddy Coal Co.'s mine, Dewmain, Williamson county. Deceased was working in room 25 when the top coal and slate fell. The accident was due to carelessness in not properly timbering the working place.

May 7, 1902, Robert Oliver, driver, age 20, single, was severely injured by a collision of a pit car and mule in the Chicago & Carterville Coal Co.'s shaft, located at Herrin, Williamson county. He died two hours after the accident.

May 15, 1902, Sam Simpson, miner, age 42, married, leaves a widow and two children, was instantly killed by a fall of slate in the mine of the Davenport Coal Co., at Ledford, Saline county. Deceased had fired a blast which had knocked all the timbers out of place at the face of his room; instead of waiting until the smoke had cleared away, he returned to fire a second blast; when within a few feet of the face, a piece of slate 6 feet wide and 10 feet long and 8 inches thick fell with the result as stated.

June 26, 1902, Charles Wheel, miner, age 54 years, was instantly killed by flying coal in the Carterville Coal Co.'s mine, Carterville, Williamson county. Deceased had prepared a blast in his room, which was about 40 feet in from the entry; when firing time came he went into the room and lit the squib; in some manner, it is presumed, he became bewildered, and instead of coming out into the entry he went down the face of the room. When the shot exploded he was struck by the flying coal. The deceased had a family living somewhere in the west.

The tables of the fatal and non-fatal accidents follow, also the county tables of the district.

Respectfully submitted,

EVAN D. JOHN,

State Mine Inspector, Seventh District.

CARBONDALE, ILLINOIS.

Fatal Casualties—Seventh District—July 1, 1902.

Date.	Name.	Age.	Occupation.	Residence.	Married.	Widow.	Children.	Single.	Dependent.	Cause of Accident.
1901										
July 13	Robert Johnson.....	36	Miner.....	Sparta.....	1	1	...	1		Falling slate.....
Aug. 20	Arthur Snodgrass.....	35	Driver.....	Pinckneyv'l	1	1	2	3		Falling rock.....
Nov. 4	John Burlison.....	3	Miner.....	Tamara.....	...	...	1	...		do.....
do	Thomas Crandall.....	50	Miner.....	do.....	1	1	5	6		do.....
Dec. 18	Ed Jarrett.....	44	Laborer, top	Willisville..	1	1	2	3		Falling down shaft..
1902										
Jan. 14	William Butcher.....	27	Driver.....	Herrin.....	1	1	1	2		Pit cars and entry ...
Jan. 22	George Pickering.....	15	Miner.....	Ledford.....	...	...	1	...		Falling slate.....
Jan. 29	C. B. Carney.....	52	Miner.....	Cartersville.	1	1	7	8		Flying coal.....
do	Abraham Buckles.....	41	Miner.....	Dewmain.....	...	...	1	...		do.....
Feb. 15	Albert Cochran.....	15	Trapper.....	Willisville.....	...	...	1	...		Pit cars.....
Feb. 24	Aleck Calcattarra.....	41	Miner.....	Herrin.....	1	1	3	4		Falling slate.....
Mar. 25	Fred Divers.....	48	Miner.....	Dewmain.....	...	...	1	...		do.....
May 7	Robert Oliver.....	20	Driver.....	Herrin.....	...	...	1	...		Pit car and mule.....
May 16	Sam Simpson.....	43	Miner.....	Ledford.....	1	1	2	3		Falling slate.....
June 26	Chas. Wheel.....	54	Miner.....	Cartersville..	...	...	1	...		Flying coal.....
	Total—15.....				8	8	22	7	30	

Recapitulation of Fatal Casualties—Seventh District—1902.

Residence.	No.	Occupation	No.	Nature of Casualty.	No.	Colliery.	No.
Cartersville...	2	Miners.....	10	Fall of roof.....	8	Burr.....	2
Herrin.....	3	Drivers.....	3	Premature blast...	3	C. & C. Co.....	2
Tamara.....	2	Trappers.....	1	Crushed by pit cars	3	Daws.....	1
Willisville.....	2	Surface lab'rs	1	Falling down shaft.	1	Eden.....	1
Pinckneyv'le	1					Ledford.....	2
Ledford.....	2					Tamara Coal Co....	2
Dewmain.....	2					B. M. C. & I. Co....	1
Sparta.....	1					W. C. & M. Co.....	2
						W. W. Colliery.....	1
						St. L. B. M. C. Co....	1
Totals....	15		15		15		15

Non Fatal Casualties—Seventh District—July 1, 1902.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury	Time lost—days.
1901									
July 1	L. A. Deppe.....	38	Willisville.....	1	...	2	3	Leg broken, falling roof.....	118
19	W. Kirkpatrick.....	24	Holden.....	1	...	...	1	Foot injured, pit car.....	30
Sept. 12	John Gear.....	21	Hallydayboro ..	...	...	1	...	Collar bone broken, pit car...	60
Oct. 22	George Baroni.....	20	Murphysboro ..	...	...	1	...	Leg broken, falling slate.....	40
31	Jon. McKerns, Sr ..	47	do.....	1	...	4	5	Hip broken, falling coal.....	40
Nov. 11	Joseph Clements ..	47	do.....	1	...	4	5	Back and chest injured, falling slate.....	40
21	Joseph Koski.....	35	Johnston City....	...	...	1	...	Body injured, flying coal.....	60
24	Fred Fisher.....	17	Willisville.....	...	...	1	...	Ribs broken, kicked by mule.	35
29	James Lee.....	43	Murphysboro ..	1	...	...	1	Back and leg injured, falling slate.....	102
29	Chas. Sullivan.....	38	Ledford.....	1	...	6	7	Arm and leg broken, falling coal.....	75

Non-Fatal Casualties—Seventh District—July 1, 1902—Concluded.

Date.	Name.	Age.	Residence.	Married.	Single.	Children.	No. persons dependent.	Character and cause of injury.	Time lost—days.
1901									
Dec. 2	J. T. Macke.....	17	Ledford	1	1	1	1	Hip bruised, pit cars.....	30
3	John Williams.....	53	Murphysboro	1	2	3	3	Back injured, falling coal	40
21	A. F. Chesney.....	..	Sato	1	..	1	1	Back injured, falling slate.....	36
24	J. J. Perry.....	..	Marion	1	..	..	..	Hip broken, falling coal	30
1902									
Jan. 1	Jacob Tofr.....	45	Sparta	1	..	1	1	Arm broken, falling coal	90
2	F. H. Williams.....	22	Herrin	1	3	4	4	Body bruised, pit car and mule	30
8	Ben Newborn.....	28	DuQuoin	1	1	2	2	Ankle injured, falling c al.....	44
14	Sam Hibbs.....	17	Dewmain	1	1	..	..	Leg injured, pit car.....	35
20	Edw Keenan.....	46	Murphysboro	1	4	5	5	Leg broken, slipped and fell.....	65
25	M. Watson.....	22	Marion	1	..	..	..	Body injured, pit car.....	35
27	Arthur White.....	20	Murphysboro	1	..	..	..	Body bruised, pit car.....	35
30	M. Kawoboski.....	35	Willisville	1	..	1	1	Ribs broken, falling coal.....	110
Feb. 12	Samuel Burk.....	43	Cartersville.....	1	4	4	4	Leg broken, falling slate.....	*
15	Alva Philipps.....	33	Willisville.....	1	..	..	..	Body bruised, pit cars.....	30
19	Wm. Anderson.....	22	Sparta	1	..	1	1	Leg broken, tail chain and car	36
25	George Fergus.....	21	Johnston City.....	1	..	..	..	Body injured, falling coal	30
26	Tony Canarero.....	33	Willisville.....	1	2	4	4	Leg broken, falling slate.....	90
26	Chas. Haenny.....	31	Johnston City.....	1	..	..	..	Body bruised, pit car.....	30
Mar. 6	Bert Jones.....	17	DuQuoin	1	..	..	..	Body bruised, side and pit car.....	32
7	John Ardery.....	36	Dewmain	1	..	..	..	Toe cut off, pit car.....	42
10	Walt. Montague.....	25	Holden	1	..	..	..	Body and legs bruised, falling slate.....	110
Apr. 1	Thos. Mitchell, Jr.....	25	St. Johns.....	1	..	1	1	Finger mashed, pit cars.....	30
5	Jas A. Calaterra.....	33	Herrin	1	3	4	4	Leg broken and shoulders injured, falling coal.....	*
18	Bert Davis	23	Willisville.....	1	..	..	..	Shoulder injured, pit car and roof.....	32
22	Thos. Rhodes.....	28	do	1	..	1	1	Hand bruised, pit cars.....	30
May 6	J. A. Winget.....	23	Herrin	1	1	2	2	Arm broken, falling slate.....	36
6	Leigh Morgan.....	23	do	1	2	3	3	Leg bruised, pit cars.....	33
10	Leonard Argus.....	36	Sato	1	3	4	4	Body injured, falling coal	40
17	Wm. Cristle.....	22	Herrin	1	..	..	..	Jaw injured, kicked by mule.....	43
31	Casleton George.....	35	Elkville	1	..	1	1	Leg bruised, pit cars.....	30
June 31	Wm. Craig	19	DuQuoin	1	..	..	..	Hand injured, pit cars.....	30
2	Wm. Hampton.....	17	Elkville	1	..	..	..	Body injured, falling coal.....	*
2	Wm. Brown.....	18	do	1	..	..	..	Leg broken, falling coal	*
5	Wm. Williams.....	49	DuQuoin	1	4	5	5	Body injured, falling slate.....	*
6	R. Gower.....	52	Spillertown	1	7	8	8	Head and back injured, falling slate.....	*
12	John Russell.....	20	Ledford	1	..	..	..	Foot injured, pit cars.....	*
13	Alonzo Haney.....	27	Murphysboro	1	1	2	2	Shoulders injured, pit cars.....	*
21	H. Fustin.....	63	DuQuoin	1	..	1	1	Leg broken, falling slate.....	*
	Totals			27	21	53	90		1879

* Not recovered July 1, 1902.

Total Number injured	48
Not recovered July 1, 1902	10
Number recovered July 1, 1902.....	38
Time lost by men recovered	1,879 days
Average days lost per man recovered.....	49.45

Recapitulation of Non-Fatal Casualties—Seventh District—1902.

Residence.	No.	Occupation.	No.	Nature of Casualty	No.	Colliery.	No.
Cartersville...	1	Cagers.....	3	Falling.....	1	Big Muddy C. & I. Co.	8
Dewmahn....	2	Drivers.....	18	Falling coal.....	11	Chi. & Carters' C. Co.	1
DuQuoin....	5	Laborers.....	2	Falling rock.....	12	Daws Coal Co.....	2
Elkville.....	3	Loaders.....	3	Flying coal.....	1	Eden Coal Co.....	2
Hallidayboro	1	Miners.....	21	Mule.....	2	Egyptian Coal Co....	4
Herrin.....	5	Roadman.....	1	Plt cars.....	21	Gartside Coal Co....	1
Holden.....	2					Harrison Coal Co....	2
Johnston City	3					Ledford Coal Co....	3
Ledford.....	3					Muddy Valley C. Co.	4
Marion.....	2					New Virginia C. Co..	3
Murphysboro	8					Perry Co. Coal Co....	2
St. Johns....	1					Southern Ill. Coal Co.	2
Sato.....	2					Sunnyside Coal Co....	2
Sparta.....	2					Superior Coal Co....	2
Spillertown..	1					Williamson Co. C. Co.	1
Willisville...	7					Willis Coal Co.....	9
Totals....	48		48		48		48

*Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-
jugal Relations and Time Lost.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of Injured.
					Total days.	Average days.	
Ankles injured.....	1	1	.....	2	44	44	2.08
Arm broken.....	2	2	.....	13	126	63	4.17
Arm and leg broken.....	1	1	.....	7	75	75	2.08
Backs injured.....	4	4	.....	10	218	54.5	8.34
Body injured.....	12	4	8	14	432	36	25.00
Collar bone broken.....	1	.....	1	.....	60	60	2.08
Feet injured.....	2	1	1	1	30	30	4.17
Finger injured.....	1	1	.....	1	30	30	2.08
Hand injured.....	2	.....	2	.....	60	30	4.17
Head and back injured.....	1	1	.....	8	.....	.....	2.08
Hips broken.....	2	1	1	5	70	35	4.17
Hip injured.....	1	.....	1	.....	30	30	2.08
Leg broken.....	9	7	2	22	309	34.3	18.75
Leg injured.....	3	2	1	4	103	34.3	6.25
Kicked by mule.....	1	.....	1	.....	43	43	2.08
Ribs broken.....	2	1	1	1	145	72.5	4.17
Shoulder injured.....	2	1	1	2	32	32	4.17
Toe cut off.....	1	.....	1	.....	42	42	2.08
Totals.....	48	27	21	90	1,849	38.5	100.00

Gallatin County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINE.								
1	Hugh Murray.....	Equality.....	27,640	16,584	875	.....	5,000	5,181
LOCAL MINES.								
1	Anderson & Demser.....	Equality.....	3,600	3,600				
2	William H. McLain.....	..do.....	1,140	1,618			65	57
3	J. E. Rayley.....	..do.....	1,600	1,500				100
4	M. Carney.....	Shawneetown	1,900	810	1,060			30
5	Leon Vogt.....	..do.....	690	690				
6	Strong & Wood.....	Saline Mines..	954		954			
7	A. J. Smith.....	..do.....	400		400			
Totals.....			10,884	8,218	2,414	.....	65	187
Totals—8 mines.....			38,524	24,802	3,289	.....	5,065	5,368

Mines in 1901, 11.

Abandoned mines, 3.

Mines in 1902, 8.

Hamilton County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
LOCAL MINES.								
1	J. C. Harper	Flint.....	150	.....	150	.....	.....	.....
2	I. R. Yates	Dahlgren.....	400	.....	400	.....	.....	.....
Totals.....			550	.....	550	.....	.....	.....

Mines in 1901, 2.

Mines in 1902, 2.

Gallatin County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$22,351	40	29	69	22,972	3,518	1,150	182	27,640	\$0 45	680	....	....
\$4,500	5	2	7	.....	3,600	.....	240	3,600	\$0 50	88	.....	.....
2,023	5	2	7	.....	1,740	.....	160	1,740	50	43	.....	.....
1,925	6	2	8	.....	1,600	.....	200	1,600	50	25	.....	.....
2,409	12	1	13	.....	1,900	.....	196	1,900	50	20	.....	.....
863	22	1	23	.....	600	.....	92	690	50	13	.....	.....
1,132	33	.....	33	.....	954	.....	160	954	50	20	.....	.....
500	12	.....	12	.....	400	.....	82	400	50	8	.....	.....
\$13,412	25	8	33	.....	10,884	.....	161.4	10,884	\$0 50	217	.....	.....
\$35,763	65	37	102	22,972	14,402	1,150	.....	38,524	.....	897	.....	.....

Hamilton County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$225 600	52	2	.....	150	.....	25	150	.....	2	.....	.....
\$25	7	7	.....	550	.....	72.5	550	.....	8	.....	.....

Jackson County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Muddy Valley M. & Mfg. Co.	Hallidayboro.	173,838	100,516	23,563	.....	9,607	40,152
2	Gartside Coal Co., 3	Murphysboro.	1,781	1,226	.....	.....	207	348
3	Gartside Coal Co., 4	do	80,632	52,517	.....	.....	15,903	12,212
4	The Willis Coal & M. Co., 2	Sato.	81,320	4,972	73,222	.....	.....	3,126
5	B. M. C. & I. Co., Harrison	Murphysboro.	267,131	122,941	24,435	18,799	.....	101,056
6	Big Muddy Coal & Iron Co., 6	do	236,155	122,018	.....	.....	.....	114,137
7	Desoto Coal & Washing Co.	Desoto	200	.....	200	.....	.....	.....
Totals.....			841,057	404,290	121,420	18,799	25,717	265,747
LOCAL MINES.								
1	Schmidgall Coal Co., 1	Murphysboro.	590	200	290	.....	.....	100
2	Robert Poole	do	2,137	1,682	.....	.....	305	150
3	John C. Ritch	Carbondale	800	400	.....	.....	200	200
4	John A. Presson	do	800	500	.....	.....	300	.....
5	William Meyer	do	1,000	300	300	.....	200	200
6	M. M. Thompson & Co.	do	2,000	1,000	.....	.....	500	500
7	Sponsler Coal Co.	do	400	300	100	.....	.....	.....
8	Seibert Phillips	do	677	302	.....	.....	300	75
9	Winning Coal Co.	Sato	240	200	.....	.....	.....	40
10	H. Moss	Vergennes	320	320	.....	.....	.....	.....
11	F. Williams	do	240	240	.....	.....	.....	.....
12	John Campbell	do	200	200	.....	.....	.....	.....
13	John Juber	Oraville	1,200	1,000	200	.....	.....	.....
14	John Herman	do	400	400	.....	.....	.....	.....
15	H. R. King	Campbell Hill	85	.....	85	.....	.....	.....
16	D. Dassin	do	100	.....	100	.....	.....	.....
17	A. Dowell	do	800	200	600	.....	.....	.....
Totals.....			11,999	7,244	1,685	.....	1,805	540
Totals—24 mines.....			853,056	411,334	123,105	18,799	27,522	272,296

Mines in 1901, 26.

New mines, 2.

Abandoned mines, 4.

Mines in 1902, 24.

* No record kept of powder used.

Jackson County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kees of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$139,245	200	60	260	166,196	2,358	5,234	150	23,875	\$0 45	*		4	1
1,771	16	18	34	1,531		250	26	1,231	45	40			2
81,791	55	44	99	73,911	521	6,200	255	18,253	45	825		1	3
90,541	110	32	142	80,569	565	195	272	81,300	45	2,150		2	4
253,846	170	90	260	256,342		10,749	249	17,553	45	*		5	5
220,611	150	89	239	228,856		7,199	249	24,046	45			2	6
170	6	7	13	150		50	20	200		7			7
\$788,005	707	340	1,047	807,686	3,444	29,927	133	166,478	\$0 45	3,022		14	
\$ 935	2	2	4		590			590		16			1
3,928	5	2	7		2,057	80	169	2,137	\$1 25	93			2
609	1	1	2		800		150	800	50	75			3
680	2	1	3		800		150	800	50	40			4
600	3		3		1,000		160	1,000	50				5
1,200	3	1	4		1,500	500	200	2,000	50	122			6
360	2	1	3		400		60	400	50	18			7
480	2	1	3		602	75	88	677	50	25			8
270	2	1	3		240		43	240	50	11			9
400	2		2		320		110	320		14			10
300	2		2		240		90	240		10			11
250	2		2		200		85	200		9			12
1,450	3	1	4		1,200		150	1,200		45			13
500	1		1		400		102	400		16			14
142	1	1	2		95		35	95		5			15
150	1	1	2		100		36	100		5			16
750	2	1	3		800		120	800		40			17
\$12,975	37	13	50		11,344	655	103	11,999	\$0 46.3	604			
\$500,980	744	353	1,097	807,686	14,788	30,582		178,477		3,626		14	

Jefferson County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
	SHIPPING MINE.							
1	J. E. Crouch (Lessee)	Mt. Vernon...	17,418	1,418	15,500	.....	150	350
	LOCAL MINE.							
1	Mrs. Sopha Shelton	Opdyke	77	.....	77	.....	.....	.....
	Totals—2 mines .....	.....	17,495	1,418	15,577	.....	150	350

Mines in 1901, 2.

Mines in 1902, 2.

Johnson County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
	LOCAL MINES.							
1	Martin Dills	New Burnside	1,000	500	400	.....	.....	100
2	McMichael & King	do	250	200	50	.....	.....	.....
3	Mrs. R. J. Smith	do	875	875	.....	.....	.....	.....
4	A. J. Edwards	do	300	300	.....	.....	.....	.....
5	William T. Kilgore	do	255	255	.....	.....	.....	.....
	Totals—5 mines .....	.....	2,680	2,130	450	.....	.....	100

Mines in 1901, 4.

New mines, 1.

Mines in 1902, 5.

Jefferson County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$16,597	48	14	62	13,504	3,349	565	125	17,418	\$0 50	660	....	....	1
115	.....	2	2	.....	77	.....	15	77	.....	1	....	....	1
\$16,712	48	16	64	13,504	3,426	565	.....	17,495	.....	661	....	....

Johnson County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$ 970	.....	1	.....	.....	1,000	.....	160	1,000	\$0 50	25	.....	.....	1
290	.....	.....	.....	.....	250	.....	60	250	.....	6	.....	.....	2
1,094	.....	1	.....	.....	875	.....	125	875	.....	16	.....	.....	3
375	.....	.....	.....	.....	300	.....	92	300	.....	5	.....	.....	4
319	1	.....	1	.....	255	.....	108	255	.....	5	.....	.....	5
\$3,048	2	2	11	.....	2,680	.....	109	2,680	\$0 50	57	.....	.....

Perry County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	G. & D. Coal Co. |Greenwood.	DuQuoin	64,774	.....	64,774	.....	.....	.....
2	Horns Colliery Co., Horns.....	..do	85,891	20,000	44,891	.....	.....	21,000
3	Morris Bros. Coal Co., Perry .....	..do	35,967	20,192	6,755	.....	1,505	7,515
4	Superior Coal Co., Lake.....	..do	74,786	44,881	7,465	.....	.....	22,440
5	Superior Coal Co., Miffler.....	..do	28,705	19,137	.....	.....	.....	9,568
6	The Willis Coal & Min. Co., 3 .....	..do	35,142	21,620	.....	2,769	3,241	7,512
7	Jupiter Coal Co., 1 .....	..do	86,095	51,657	.....	.....	15,153	19,285
8	Bailey Bros. Coal Co.	Sunfield	33,309	22,052	4,796	.....	.....	6,461
9	Old Kentucky Coal Co.	Tamaroa.....	13,935	10,430	.....	.....	.....	3,555
10	Little Muddy Coal Co. ....	..do	80	720	.....	.....	.....	80
11	Geo. W. Brown Coal Co.	Pinckneyville	23,320	13,320	10,000	.....	.....	5,000
12	White Walnut Coal Co. ....	..do	54,916	17,044	32,729	.....	756	4,417
13	Turner & Faust Coal Co. ....	..do	12,268	5,131	5,324	.....	549	1,264
14	Soper & Co.	Cutler	29,764	17,869	6,550	1,255	890	3,200
15	Chicago & Coulterville C. Co.	Coulterville..	1,386	446	815	.....	.....	125
16	The Willis Coal & Mining Co.	Willisville....	191,044	29,750	151,137	.....	2,869	7,288
Totals			777,182	294,249	335,236	4,024	24,963	118,710
LOCAL MINES.								
1	New Moon Coal Co.	DuQuoin	6,929	1,750	.....	1,750	1,270	2,159
2	Snoffard L. Pyles.....	..do	209	200	.....	.....	.....	.....
3	Wilson & Cairt .....	..do	700	300	.....	.....	200	200
4	William Williams	St. Johns	950	.....	950	.....	.....	.....
5	Turner & Faust Coal Co.	Pinckneyville	1,614	1,300	.....	.....	.....	324
6	Turner & Faust Coal Co. ....	..do	1,800	1,400	.....	.....	.....	400
7	G. C. Carpenter.....	Denmark	240	240	.....	.....	.....	.....
Totals			12,443	5,190	950	1,750	1,470	3,083
Totals—23 mines.....			789,625	299,439	336,186	5,774	26,433	121,793

Mines in 1901, 21.

New mines, 3.

Abandoned mine, 1.

Mines in 1902, 23.

Perry County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$ 55,058	75	35	110	64,774	.....	.....	210	64,774	\$0 45	2,000	.....	.....	1
65,557	120	50	170	85,891	.....	.....	191	85,891	45	2,394	.....	.....	2
28,084	32	20	52	32,967	1,872	1,128	200	35,967	45	1,475	.....	.....	3
57,558	75	37	112	71,886	1,200	1,700	232	74,786	45	2,203	.....	.....	4
22,007	30	14	44	27,805	.....	900	220	28,705	45	720	.....	.....	5
31,587	63	21	84	33,895	.....	216	1,031	35,142	45	1,123	.....	.....	6
79,242	100	43	143	83,770	500	1,825	210	86,095	45	2,870	.....	.....	7
27,261	40	15	55	31,438	871	1,000	192	33,309	45	800	.....	.....	8
11,152	31	15	46	13,105	230	650	150	13,985	45	420	.....	.....	9
680	3	5	8	400	320	80	120	800	45	70	.....	.....	10
21,488	61	30	91	26,100	1,000	1,220	101	28,320	49	1,086	.....	.....	11
43,066	44	19	63	54,061	246	639	267	54,946	49	1,867	.....	.....	12
11,081	17	6	23	8,735	2,933	600	252	12,168	49	290	.....	.....	13
24,241	30	9	39	28,444	600	720	180	29,764	49	744	.....	.....	14
1,145	.....	.....	.....	703	645	38	65	1,386	49	35	.....	.....	15
162,074	179	41	214	187,260	541	3,243	277	163,692	49	5,619	.....	.....	16
<u>\$641,681</u>	<u>894</u>	<u>360</u>	<u>1,254</u>	<u>751,234</u>	<u>11,174</u>	<u>14,774</u>	<u>191.3</u>	<u>749,730</u>	<u>\$0 46½</u>	<u>23,696</u>	<u>5</u>	<u>14</u>	
\$7,804	7	4	11	.....	6,585	344	200	6,929	45	150	.....	.....	1
250	3	.....	3	.....	200	.....	24	200	45	6	.....	.....	2
790	3	2	5	.....	700	.....	150	700	45	25	.....	.....	3
950	2	.....	2	.....	950	.....	145	950	45	32	.....	.....	4
2,063	3	1	4	.....	1,624	.....	115	1,624	49	42	.....	.....	5
2,240	3	1	4	.....	1,800	.....	130	1,800	49	49	.....	.....	6
300	2	.....	2	.....	240	.....	40	240	49	.....	.....	.....	7
<u>\$14,397</u>	<u>23</u>	<u>8</u>	<u>31</u>	<u>.....</u>	<u>12,099</u>	<u>344</u>	<u>14 8</u>	<u>12,443</u>	<u>\$0 46</u>	<u>304</u>	<u>.....</u>	<u>.....</u>	
<u>\$656,078</u>	<u>917</u>	<u>368</u>	<u>1,285</u>	<u>751,234</u>	<u>23,273</u>	<u>15,118</u>	<u>.....</u>	<u>762,172</u>	<u>.....</u>	<u>24,000</u>	<u>5</u>	<u>14</u>	

Randolph County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	Western Anthracite Coal Co.	Sparta	186,000	167,400	.....	.....	.....	18,600
2	Davison & Fulton, 1.....	do	33,692	7,508	21,184	.....	4,211	789
3	Illinois Fuel Co., 3.....	do	38,534	25,014	7,340	.....	.....	6,180
4	Illinois Fuel Co., 4.....	do	1,083	.....	1,000	.....	.....	83
5	Coulterville Mining Co.....	Coulterville ..	23,171	10,940	8,727	.....	200	3,304
6	Tilden Coal Co.....	Tilden	41,782	30,149	2,338	.....	643	8,652
7	Crystal Coal Co.....	do	20,100	.....	20,100	.....	.....	.....
8	Goalby Bros. Coal Co., 2	Percy	19,410	4,925	13,025	.....	.....	1,460
9	Rosborough Coal Co	do	29,180	803	28,171	.....	.....	206
Totals			392,952	246,739	101,885	.....	5,054	39,274
LOCAL MINES.								
1	John & George Meyer.....	Percy	650	550	50	.....	.....	50
2	George Stanway.....	Blair	1,200	.....	1,200	.....	.....	.....
3	J. C. Boyle & Son.....	Sparta	6,000	5,000	.....	.....	.....	1,000
Totals			7,850	5,550	1,250	.....	.....	1,050
Totals—12 mines			400,802	252,289	103,135	.....	5,054	40,324

Mines in 1901, 14.

New mines, 1.

Abandoned mines, 3.

Mines in 1902, 12.

Randolph County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$127,410	125	53	178	151,800	1,200	3,000	216	186,000	\$0 49	7,000	1	2	1
24,200	36	15	51	30,383	1,652	1,657	159	33,692	49	958	...	...	2
32,951	38	10	48	37,904	110	520	246	38,534	49	1,080	...	...	3
850	6	4	10	1,000	...	83	40	1,083	49	34	...	...	4
18,747	44	11	55	20,210	2,412	519	242	23,171	49	902	...	...	5
30,086	60	18	78	36,449	651	4,682	178	41,782	49	1,436	...	...	6
15,075	28	9	37	20,000	100	...	176	20,100	49	1,200	...	...	7
16,562	26	10	36	19,137	273	...	173	19,410	49	596	...	...	8
24,911	50	14	64	27,974	825	381	161	29,180	49	1,819	...	...	9
<u>\$290,792</u>	<u>413</u>	<u>144</u>	<u>557</u>	<u>374,887</u>	<u>7,223</u>	<u>10,842</u>	<u>177</u>	<u>392,952</u>	<u>\$0 49</u>	<u>15,025</u>	<u>1</u>	<u>2</u>	
\$ 905	3	1	4	...	650	...	65	650	...	18	...	...	1
1,200	4	1	5	...	1,200	...	92	1,200	...	34	...	...	2
6,500	3	2	5	...	5,500	500	300	6,000	\$0 49	145	...	...	3
<u>\$8,605</u>	<u>10</u>	<u>4</u>	<u>14</u>	<u>...</u>	<u>7,350</u>	<u>500</u>	<u>152</u>	<u>7,850</u>	<u>\$0 49</u>	<u>197</u>	<u>...</u>	<u>...</u>	
<u>\$299,397</u>	<u>423</u>	<u>148</u>	<u>571</u>	<u>374,887</u>	<u>14,573</u>	<u>11,342</u>	<u>...</u>	<u>400,802</u>	<u>...</u>	<u>15,222</u>	<u>1</u>	<u>2</u>	

Saline County--Seventh District--1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINES IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pe a, screenings and waste.
SHIPPING MINES.								
1	Harrisburg Mining & Coal Co., 1.....	Harrisburg...	76,108	14,050	55,558	.....	5,500	1,000
2	Saline County Coal Co.....	do.....	4,000	.....	4,000	.....	.....	.....
3	Davenport Coal Co.....	Ledford.....	120,860	15,940	98,442	.....	3,188	3,290
4	Clifton Coal Co.....	do.....	16,138	.....	16,138	.....	.....	.....
Totals			217,106	29,990	174,138	.....	8,688	4,290
LOCAL MINES.								
1	C. M. Leeper & Co., Diamond	Eldorado.....	900	.....	900	.....	.....	.....
2	Evans & Loyd.....	do.....	2,200	.....	2,200	.....	.....	.....
3	William Butler.....	Stonefort.....	1,100	400	400	.....	.....	300
4	H. P. Setteg.....	do.....	125	95	5	.....	.....	25
5	A. C. Cogdill.....	do.....	60	50	.....	.....	.....	10
6	John Chaney.....	do.....	50	50	.....	.....	.....	.....
7	J. M. Reeder.....	do.....	40	40	.....	.....	.....	.....
8	R. M. Berry.....	Cottage Grove	1,158	.....	1,158	.....	.....	.....
9	James A. Clark.....	do.....	125	.....	125	.....	.....	.....
10	John Yates.....	do.....	50	.....	50	.....	.....	.....
11	John Ward.....	.....	600	.....	600	.....	.....	.....
12	D. P. Bybee.....	.....	500	.....	500	.....	.....	.....
Totals			6,908	635	5,938	.....	.....	335
Totals—19 mines.....			224,014	30,625	180,076	.....	8,688	4,625

Mines in 1901, 15.

New mines, 3.

Abandoned mines, 2.

Mines in 1902, 16.

Saline County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCIDENTS.	
	Average number of miners.	All other employes.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$70,087	55	20	75	64,008	11,000	1,100	210	76,104	\$0 45	1,624	.....	1
3,400	8	6	14	3,500	400	100	150	4,000	45	157	.....	2
107,292	98	41	139	120,860	.....	.....	186	120,860	45	2,400	2	3
13,717	13	8	21	14,800	500	838	187	16,138	45	485	.....	4
\$194,496	174	75	249	204,168	11,900	2,038	183	217,106	\$0 45	4,666	2	3
\$900	2	1	3	.....	880	20	150	900	\$0 50	45	.....	1
2,200	8	2	10	.....	2,200	.....	200	2,200	45	150	.....	2
823	3	.....	3	.....	800	300	200	1,100	62	12	.....	3
106	2	.....	2	.....	100	25	40	125	75	4	.....	4
63	1	.....	1	.....	50	10	50	60	.....	5	.....	5
50	1	.....	1	.....	50	.....	22	50	.....	2	.....	6
40	2	.....	2	.....	40	.....	15	40	.....	1	.....	7
1,158	1	1	2	.....	1,158	.....	220	1,158	.....	4	.....	8
125	1	.....	1	.....	125	.....	80	125	.....	3	.....	9
50	1	.....	1	.....	50	.....	36	50	.....	1	.....	10
600	2	.....	2	.....	600	.....	120	600	.....	15	.....	11
500	2	.....	2	.....	500	.....	110	500	.....	13	.....	12
\$6,605	26	4	30	.....	6,553	355	104	6,908	\$0 53	255	.....	...
\$201,101	200	79	279	204,168	18,453	2,393	.....	224,014	.....	4,921	2	3

Wabash County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	P e a, screenings and waste.
LOCAL MINES.								
1	A. G. Keen, Keen's.....	Mt. Carmel...	1,640	1,280	.....	.....	.....	360
2	Couch Adams & Co.....	do.	1,600	1,600	.....	.....	.....	.....
3	William Batson, Bluff.....	Keensburg ..	1,880	1,360	.....	.....	360	160
Totals—3 mines.....			5,120	4,240	.....	.....	360	4,594

Mines in 1901, 3.

Mines in 1902, 3.

Washington County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings or waste.
SHIPPING MINES.								
1	Hugh Murray.....	Nashville.....	11,981	9,211	.....	.....	926	1,844
2	Adam Kuhn	DuBois	20,000	14,000	2,000	.....	1,250	2,750
Totals			31,981	23,211	2,000	.....	2,176	4,594
LOCAL MINE.								
1	Ben Podget.....	Okawville	961	773	.....	.....	.....	188
Totals—3 mines			32,942	23,984	2,000	.....	2,176	4,782

Mines in 1901, 3.

Mines in 1902, 3.

Wabash County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$1,998	5	4	9	.....	1,640	.....	200	1,640	.....	90	.....	.....
15,160	5	4	9	1,600	185	1,600	8
2,100	4	3	7	1,880	150	1,880	100
6,258	14	11	25	5,120	178.3	5,120	277

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3*Washington County—Seventh District—Concluded.*

Aggregate value of total product.	EMPLOYES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.	
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.
\$10,402	19	8	27	1,115	9,022	1,844	180	11,981	\$0 49	350	.....	.....
15,963	40	13	53	16,000	1,500	2,500	170	20,000	45	1,000	.....	.....
\$26,365	59	21	80	17,115	10,522	4,344	175	31,911	\$0 46.5	1,350
1,256	6	3	9	773	188	300	961	0 75	50
\$27,621	65	24	89	17,115	11,295	4,532	32,942	1,400

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Williamson County—Seventh District—1902.

Number.	NAME OF OPERATOR.	POSTOFFICE ADDRESS OF MINE.	OUTPUT OF MINE IN TONS.					
			Total.	Lump.	Mine-run.	Egg.	Nut.	Pea, screenings and waste.
SHIPPING MINES.								
1	St. Louis Big Muddy Coal Co., Daw's.....	Carterville...	227,301	50,933	23,042	57,331	57,958	38,037
2	Carterville Coal Co.....	do.....	145,396	21,051	4,506	49,650	18,000	52,189
3	New Ohio Washed Coal Co., 1	do.....	106,812	21,362	.....	26,704	.....	58,747
4	New Ohio Washed Coal Co., 2	do.....	99,451	17,890	16,983	19,853	.....	44,725
5	Robert Dick Coal Co.....	do.....	37,137	18,569	.....	.....	.....	18,568
6	Independent Coal Co.....	do.....	90,000	18,000	190	19,000	2,000	50,810
7	Big Muddy Coal & Iron Co., 1	Herrin.....	335,368	98,347	49,343	22,035	157,294	14,347
8	Sunnyside Coal Co.....	do.....	150,013	29,263	25,078	19,804	.....	75,864
9	Chicago-Carterville Coal Co., 1	do.....	209,701	51,799	6,969	34,856	90,611	21,466
10	Chicago & Herrin Coal Co., 1	do.....	12,864	2,858	420	2,912	410	6,164
11	Williamson County Coal Co.	Lake Creek...	74,022	10,363	49,348	5,675	.....	8,636
12	New Virginia Coal Co.....	do.....	33,154	4,967	3,315	8,568	5,564	10,740
13	Johnston City Big Muddy Coal Co.....	do.....	150	.....	150	.....	.....	.....
14	Marion Coal Co.....	Marion.....	50,971	7,900	.....	11,125	14,067	17,879
15	Southern Ill. C. M. & W. Co., 2	do.....	139,537	23,084	19,456	30,908	19,595	46,490
16	Southern Ill. C. M. & W. Co., 3	do.....	88,678	15,524	5,327	24,251	37,576	.....
17	Southern Ill. C. M. & W. Co., 4	do.....	99,676	13,833	7,741	28,712	15,157	34,233
18	Chicago Big Muddy Coal Co.	do.....	100,630	24,834	425	20,619	14,137	40,615
Totals.....			2,001,859	425,681	212,293	386,006	432,369	545,510
LOCAL MINES.								
1	Robert Canfield.....	Marion.....	600	400	100	.....	.....	100
2	William P. Allen.....	do.....	2,000	1,100	750	.....	.....	150
3	E. E. Ensminger.....	Crab Orchard	880	680	200	.....	.....	.....
4	Wilford & Downs.....	do.....	200	200	.....	.....	.....	.....
5	Chas. Dunsford.....	do.....	400	400	.....	.....	.....	.....
6	W. S. Tarpley.....	do.....	200	200	.....	.....	.....	.....
7	Snoddy Bros.....	Absher.....	26	29	.....	.....	.....	.....
8	Reeves & Co.....	Hodgens.....	800	800	.....	.....	.....	.....
9	John A. Young.....	Carterville.....	2,700	2,700	.....	.....	.....	.....
10	Richard Hampton.....	do.....	2,123	770	.....	.....	507	846
11	John Reed.....	Herrin.....	1,904	1,561	130	.....	213	.....
Totals.....			11,833	8,837	1,180	.....	720	1,096
Totals—30 mines.....			2,013,692	434,518	213,473	386,006	433,089	546,606

Mines in 1901, 29.

New mines, 3.

Abandoned mines, '3.

Mines in 1902, 29.

Williamson County—Seventh District—Concluded.

Aggregate value of total product.	EMPLOYEES.			DISPOSITION OF OUTPUT.			Days of active operation.	Tons mined by hand.	Price paid per gross ton for hand mining.	Number of kegs of powder used for blasting coal.	ACCI- DENTS.		Number.
	Average number of miners.	All other employees.	Total.	Tons loaded on cars for shipment and supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at the mine.					Number of fatal.	Number of non-fatal.	
\$210,027	150	100	250	203,260	1,470	22,571	194	227,301	\$0 42	7,673	2	2	1
102,015	87	60	147	140,796	1,250	3,350	275	145,396	42	3,175	2	....	2
93,994	109	32	141	102,012	.....	4,800	218	106,812	42	3,550	.....	....	3
80,825	85	28	113	96,451	.....	3,000	198	99,451	42	2,980	.....	....	4
28,781	40	17	57	36,237	200	700	178	37,137	42	800	.....	....	5
75,838	60	25	85	85,000	3,500	1,500	200	90,000	42	1,600	.....	....	6
255,681	251	74	325	322,681	2,226	11,459	216	336,366	42	9,920	1	3	7
121,671	148	60	208	143,558	668	5,787	160	150,013	42	4,365	.....	....	8
179,903	126	74	200	195,297	1,085	13,319	219	26,845	42	3,622	2	1	9
9,739	21	17	38	11,270	1,238	356	130	12,864	42	400	.....	....	10
59,255	99	32	130	69,761	1,043	3,218	152	74,022	42	2,209	.....	....	11
24,870	50	29	79	31,354	300	1,500	202	33,154	42	1,100	.....	....	12
120	5	15	20	100	25	25	15	150	42	10	.....	....	3
33,707	45	31	76	48,661	120	2,190	178	50,971	42	1,061	.....	....	13
108,063	110	78	188	131,237	500	7,800	162	28,375	42	1,990	.....	....	14
68,092	60	57	117	82,378	300	6,000	186	4,495	42	1,314	.....	....	15
76,470	51	35	86	94,976	2,200	2,500	196	17,870	42	1,392	.....	....	16
79,534	83	43	126	98,385	473	1,772	211	48,219	42	2,558	.....	....	17
<u>\$1,608,585</u>	<u>1,579</u>	<u>807</u>	<u>2,386</u>	<u>1,893,414</u>	<u>16,598</u>	<u>91,847</u>	<u>192.6</u>	<u>1,489,441</u>	<u>\$0 42</u>	<u>49,618</u>	<u>7</u>	<u>15</u>	
\$660	2	1	3	.....	600	.....	62	600	\$0 42	18	.....	....	1
2,163	.....	2	2	.....	2,000	.....	225	2,000	50	15	.....	....	2
830	2	2	4	.....	880	.....	.....	880	42	40	.....	....	3
150	1	.....	1	.....	200	.....	.....	200	50	29	.....	....	4
300	2	.....	2	.....	400	.....	.....	400	50	20	.....	....	5
150	2	1	3	.....	200	.....	.....	200	50	8	.....	....	6
19	1	.....	1	.....	26	.....	.....	26	50	1	.....	....	7
800	2	1	3	.....	800	.....	.....	800	50	40	.....	....	8
3,375	3	1	4	.....	2,700	.....	140	2,700	50	104	.....	....	9
1,630	2	1	3	.....	2,123	.....	253	2,123	42	42	.....	....	10
1,765	3	2	5	.....	1,904	.....	78	1,904	60	75	.....	....	11
<u>\$12,042</u>	<u>20</u>	<u>11</u>	<u>31</u>	<u>.....</u>	<u>11,833</u>	<u>.....</u>	<u>151.6</u>	<u>11,833</u>	<u>\$0 47</u>	<u>332</u>	<u>..</u>	<u>.....</u>	
<u>\$1,620,627</u>	<u>1,599</u>	<u>818</u>	<u>2,417</u>	<u>1,893,414</u>	<u>28,431</u>	<u>91,847</u>	<u>.....</u>	<u>1,501,274</u>	<u>.....</u>	<u>50,010</u>	<u>7</u>	<u>15</u>	

Recapitulation by Counties—

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Gallatin	1	27,640	16,584	875	.....	5,000	5,181	.....	\$22,351
Jackson	7	841,057	404,090	121,420	18,799	25,717	265,747	5,284	788,305
Jefferson	1	17,418	1,418	15,500	.....	150	.....	350	16,598
Perry	16	777,182	294,249	335,236	4,024	24,963	96,206	22,504	642,107
Randolph.....	9	392,952	246,739	101,885	.....	5,054	32,521	6,753	290,968
Sallne	4	217,106	29,950	174,138	.....	8,638	3,290	1,000	194,496
Washington..	2	31,981	23,211	2,000	.....	2,176	250	4,344	26,381
Williamson...	18	2,001,859	425,681	212,293	386,006	432,369	460,453	85,057	1,567,478
Totals and averages	58	4,307,195	1,441,962	968,347	408,829	504,117	863,648	125,292	\$3,548,684

* Five mines.

† Eight mines.

‡ One hundred forty-nine thousand nine hundred sixty-three tons mined by air drills, men furnishing their own powder and paid 35 $\frac{1}{4}$ cents per ton.

Seventh District—1902—Shipping Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of powder used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
40	29	69	20,000	2,972	3,518	1,150	182	27,640	.....	\$0.45	.....	680	..	..
707	340	1,047	767,105	40,581	3,444	29,927	*235	† 316,441	524,616	0.45	\$0.374	3,022	..	14
48	14	62	1,685	11,819	3,349	565	125	17,418	.....	0.50	.....	660	..	..
894	350	1,254	663,905	87,329	11,174	14,774	194	749,730	27,452	0.465	0.42	23,696	5	14
413	144	557	367,470	7,417	7,223	10,842	†199	392,952	.....	0.49	.....	15,025	1	2
174	75	249	189,968	13,200	11,900	2,038	153	217,106	.....	0.45	.....	4,666	2	3
59	21	80	17,115	.....	10,522	4,344	175	31,981	.....	0.465	.....	1,850	..	..
1,579	807	2,386	1,892,624	790	16,598	91,817	192.6	1,459,441	512,418	0.42	0.35	49,618	7	15
8,914	1,790	5,704	3,919,872	164,103	67,725	155,487	193.6	3,212,709	1,064,456	\$0.461	\$0.365	98,717	15	49

Recapitulation by Counties—

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Lump.	Mine run.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Gallatin	7	10,884	8,218	2,414	.....	65	187	.....	\$13,412
Hamilton	2	550	.....	550	.....	.....	.....	.....	825
Jackson	17	11,999	7,244	1,635	.....	1,805	540	725	12,975
Jefferson.....	1	77	.....	77	.....	.....	.....	.....	115
Johnson	5	2,680	2,130	450	.....	.....	100	.....	3,048
Perry	7	12,443	5,190	950	1,750	1,470	2,324	759	14,397
Randolph.....	3	7,850	5,550	1,250	.....	.....	550	500	8,605
Saline	12	6,908	635	5,933	.....	.....	335	.....	6,605
Wabash	3	5,120	4,240	.....	.....	360	520	.....	6,258
Washington..	1	961	773	.....	.....	.....	.....	188	1,256
Williamson...	11	11,833	8,837	1,180	.....	720	397	699	12,042
Totals and averages	69	71,305	42,817	14,494	1,750	4,420	4,953	2,871	79,733
Totals district—all mines..	127	4,378,500	1,484,779	977,841	410,579	508,537	868,601	128,163	\$3,628,417

Whole number of mines reported in 1901, 130.

Number of new mines opened during the year, 13.

Number of mines abandoned during the year, 16.

Whole number of mines reported for 1902, 127.

Seventh District—1902—Local Mines.

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	TONS MINED.		PRICES PAID PER TON FOR—		Number of kegs of pow- der used for blasting coal.	Number fatal casualties.	Number non-fatal casualties.
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to lo- comotives at mines.	Tons sold to local trade.	Tons consumed and wasted at mines.		By hand.	By machine.	Hand mining.	Machine mining.			
25	8	33	.....	.....	10,884	.....	161.4	10,884	.....	\$0.50	.....	217	..	..
.....	7	7	.....	.....	550	.....	72.5	550	.....	.....	.....	8	..	..
87	13	50	.....	.....	11,344	655	103	11,999	.....	0.50	.....	604	..	..
.....	2	2	.....	.....	77	.....	15	77	.....	.....	.....	1	..	..
9	2	11	.....	.....	2,650	.....	109	2,650	.....	0.50	.....	57	..	..
23	8	31	.....	.....	12,099	344	116	12,443	.....	0.465	.....	304	..	..
10	4	14	.....	.....	7,350	500	152	7,850	.....	0.49	.....	197	..	..
26	4	30	.....	.....	6,553	355	104	6,908	.....	0.60	.....	255	..	..
14	11	25	.....	.....	5,120	.....	178	5,120	.....	.....	.....	277	..	..
6	3	9	.....	.....	773	188	300	961	.....	0.75	.....	50	..	..
20	11	31	.....	.....	11,833	.....	.....	11,833	.....	.....	.....	392	..	..
170	73	243	.....	.....	69,263	2,042	119	71,305	.....	\$0.50	.....	2,362	..	..
4,084	1,863	5,947	3,919,872	164,105	136,991	157,529	.....	3,314,014	1,064,486	.....	.....	83,002	15	48

APPENDIX

REGISTER OF CERTIFICATED—
MINE MANAGERS.
HOISTING ENGINEERS.
MINE EXAMINERS.

AGREEMENT AS TO MINING PRICES AND CONDITIONS
IN ILLINOIS.

REPORTS OF FREE EMPLOYMENT OFFICES.

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—This list includes all the mine managers to whom certificates have been issued prior to January 1, 1902.

The names which are printed in *italic* are those who hold both certificates of service and subsequent certificates of competency acquired through examination.

The names which are followed by the abbreviation "ex." are those who have exchanged certificates of service for those of competency without examination, under the provisions of the amendment of 1895.

The postoffice addresses here given and in all the lists following are those recorded at the time the certificates were issued, and in many cases are not the present addresses of the certificate holders.

Name.	Postoffice.	Name.	Postoffice.
<i>Adams, Charles T.</i>	Roshoro.....	Baumer, Fred.....	Marquette.....
Adams, J. M.....	Wanlock.....	Bauer, Valentine.....	Clyde.....
Alnsworth, Samuel.....	Taylorville.....	Baxter, William.....	Ladd.....
Alnsworth, Samuel, Jr.....	do.....	Beaghan, Peter.....	Cantrall.....
Alnsworth, Thomas.....	do.....	<i>Beattie, Richard.</i>	Murphysboro.....
Allen, James.....	Streator.....	Beattie, John.....	Danville.....
Allen David T.....	LaSalle.....	Beatty, James.....	Mascoutah.....
Anderson, W. C.....	Elmwood.....	Beatty, James H.....	do.....
Anderson, James.....	Ladd.....	Becker, Henry.....	Peoria.....
Anderson, James C.....	Streator.....	Becker, Peter.....	Petersburg.....
<i>Andreas, Aug.</i>	Belleville.....	Becker, F. W.....	Pinckneyville.....
<i>Angel, Hiram.</i>	do.....	Beese, John.....	Birkner.....
Angell, Charles.....	do.....	Beharrelle, Fred.....	Orchard Mines.....
Applett, William R.....	Springfield.....	Bell, Richard.....	Gillespie.....
Appleby, John E.....	Peoria.....	Bell, William.....	Streator.....
Argyle, Joseph.....	Coal City.....	Belger, John.....	Nilwood.....
Atkinson, Edward.....	Streator.....	Bengston, John A., ex.....	Galva.....
Atkinson, William.....	Murphysboro.....	Bennett, James.....	Odin.....
Atkinson, William.....	Braceville.....	Bennett, John.....	Centralla.....
Armstrong, Thomas J.....	Spring Valley.....	Berkstresser, W. A.....	DuQuoin.....
Armstrong, William C.....	Marion.....	Berry, Jessar.....	Greenview.....
Archer, John.....	Barclay.....	Betts, Joseph E.....	Belleville.....
Aston, Huber, ex.....	Falmount.....	<i>Betz, Charles C.</i>	DuQuoin.....
Archibald, David.....	Freeburg.....	Bevard, John J.....	Kilmundy.....
<i>Ax John</i>	Edwardsville.....	Bevard, F. C.....	Cartersville.....
<i>Azford, Thomas.</i>	Petersburg.....	Beveridge, David.....	Sorento.....
		Beggs, Samuel, ex.....	Clark City.....
Baker, Gustav.....	Streator.....	Biebel, Henry, ex.....	Rentchler.....
Back, Thomas.....	Mapleton.....	Biggins, James.....	Sorento.....
Bailey, William.....	Arhens.....	Bingham, Robert.....	O'Fallon.....
Bailey, Joseph.....	DuQuoin.....	Bird, George W.....	Coffeen.....
Ball, Edward.....	Bartonville.....	Birtin, Henry.....	Pana.....
Barlow, Henry.....	Coffeen.....	Birtley, William P.....	Springfield.....
Barnes, James.....	Braidwood.....	Blair, Gus.....	Murphysboro.....
Barnett, Oliver.....	Bryant.....	Blair, Herbert.....	Divernion.....
Barratt, John C.....	DuQuoin.....	Blankenship, Wm F.....	East Peoria.....
Barron, James, ex.....	Cantrall.....	<i>Blenkinsoff, Thos. N.</i>	Cable.....
Barrowman, James.....	Braidwood.....	Boettcher, F. J.....	New Athens.....
Barlett, Thomas, ex.....	Cuba.....	Boston, G. W.....	Murphysboro.....
<i>Bashong, Andrew.</i>	Danville.....	Boston, James.....	DuQuoin.....
<i>Barwell, John.</i>	Marissa.....	Bottomly, Edward.....	Oglesby.....
<i>Bates, W. H.</i>	Winchester.....	Bottomly, John.....	do.....
Bates, R. D.....	do.....	Bowers, Robert.....	Wenona.....
		Bowie, James.....	Braidwood.....

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
<i>Bracken, James A.</i>	Greenview.....	Corrigan, James.....	Marseilles.....
Bradenberger, F.....	Belleville.....	Courtney, James D.....	Westville.....
Brennan, John I.....	Verden.....	Cowell, William.....	Assumption.....
Bresmen, William.....	Springfield.....	Craine, John E.....	Murphysboro.....
Brockhouse, Samuel.....	Caseyville.....	Craine, B. S.....	do.....
Brigham, William.....	Marissa.....	Crampton, Edward.....	do.....
Brooks, Peter.....	Taylorville.....	Crauch, J. E.....	Verden.....
Brown, John.....	Glen Carbon.....	Cranksaw, Thomas.....	Decatur.....
Brown, Thomas Manhall.....	Pinckneyville.....	Cranksaw, William.....	do.....
Brown, William J.....	Coal City.....	Crighton, Robert.....	Chenoa.....
Brown, William F.....	Pontiac.....	Crowder, Richard A.....	Moccasin.....
Brown, James B.....	Murphysboro.....	Cruikshanks, John.....	Farmington.....
Brown, F. M.....	Farmington.....	Cruikshanks, Walter E.....	E. Peoria.....
Browning, J. M.....	DuQuoin.....	Cruikshanks, William.....	Middle Grove.....
Brueckner, Emil.....	Staunton.....	Cryer, James T.....	Spring Valley.....
Brueggeman, George.....	Belleville.....	Cumming, Ambrose B.....	Spartanland.....
Bulmer, John, ex.....	St. John.....	Cumming, James P.....	do.....
Bulmer, Benjamin.....	Muddy Valley.....	Cumming, John P.....	Braceville.....
Bundy, John.....	Streator.....	Cumming, Thomas S.....	Gardner.....
Burdett, J. P.....	Colchester.....	Cumming, D. H.....	do.....
Burke, George, ex.....	Peru.....	Cunningham, Thomas.....	Girard.....
Burkhardt, John B.....	Mt. Olive.....	Cunningham, Cornick.....	Springfield.....
		Currie, Adam.....	LaSalle.....
Callear, Isaac.....	Pottstown.....		
Cameron, David J.....	Pana.....	Daenzer, Anton.....	Belleville.....
Cameron, D. S., ex.....	Sorento.....	Dale, Henry.....	Murphysboro.....
Cambell, William.....	Sandoval.....	<i>Dale, John</i>	Freilonia.....
Campbell, Frank J.....	Athens.....	Daniels, James.....	Belleville.....
Campbell, Thomas M.....	Pinckneyville.....	Daniels, Samuel.....	do.....
Campbell, H. J.....	Assumption.....	Daniels, Alexander.....	Henry.....
Canfield, R. A.....	Madisonville, Ky.....	Daune, William.....	Lincoln.....
Carroll, A. W.....	Gillespie.....	<i>Davis, Calib.</i>	Collinsville.....
Carson, J. H.....	O'Fallon.....	Davis, J. H.....	Cuba.....
Carson, Chas. W.....	Wolcott.....	Davis, Thomas.....	Dunfermline.....
Carter, Charles.....	Birkner.....	Davis, P. J.....	Percy.....
Carter, George.....	do.....	Davis, William.....	Litchfield.....
Cartledge, Oscar.....	Gillespie.....	Davis, William H.....	Streator.....
Carroll, John.....	O'Fallon.....	<i>Davidson, M.</i>	DuQuoin.....
<i>Casby, James F.</i>	Shelbytown.....	Davidson, James.....	Sparta.....
Catheart, Matthew, ex.....	Tilden.....	Davenport, John.....	Harrisburg.....
Center, George H.....	Hallidayboro.....	Dawson, Daniel.....	Campbell Hill.....
Chalderton, John.....	Lenz Station.....	Dawson, Richard.....	Athens.....
<i>Chambers, William</i>	Spaulding.....	<i>Deans, Henry</i>	Percy.....
<i>Charlton, George R.</i>	Greenview.....	Deaney, George H.....	Farmington.....
Cherry, John T.....	Seatonville.....	Denny, John J.....	Springfield.....
Cherry, James.....	do.....	Denny, Lawrence.....	do.....
Cherry, W. S.....	Streator.....	Devlin, Henry.....	Toluca.....
Chere, George.....	Pleasant Plains.....	Devlin, Thomas H.....	Spring Valley.....
Checkin, David.....	Reed City.....	Diamond, Peter.....	DuQuoin.....
Chivers, Joseph.....	Braceville.....	Dick, Robert.....	do.....
<i>Chonolly, Terrance J.</i>	Assumption.....	Dickenson, James E.....	Belleville.....
<i>Christie, David</i>	Murphysboro.....	Dickerson, J. L.....	Danville.....
Church, Henry M.....	Marissa.....	Dodd, William.....	Cable.....
Clark, Martin.....	Decatur.....	Dodge, H. N.....	St. David.....
<i>Clark, Edward</i>	do.....	Donahoe, James.....	Carterville.....
Clark, Quinton.....	Braidwood.....	Donaldson, William.....	Kangley.....
Clark, Thomas.....	Decatur.....	Donaldson, James W.....	Peoria.....
Clark, John.....	do.....	<i>Donally, James</i>	Carterville.....
Clayton, Frank.....	Troy.....	Dooley, Harry.....	Springfield.....
Clelland, Robert.....	Braidwood.....	Donner, P. I.....	Glenburn.....
Clifford, Michael J.....	Kewanee.....	Donnelly, P. H.....	Chicago.....
Coar, Firman.....	Worden.....	Donnelly, Henry.....	Braidwood.....
<i>Collier, Frank J.</i>	Bartonville.....	Doughty, James.....	Danville.....
Collins, Richard J., ex.....	O'Fallon.....	Dougherty, Daniel.....	Virginia.....
Combs, James W.....	Kewanee.....	Dowell, Thomas.....	Muddy Valley.....
<i>Comford, L.</i>	Cantrill.....	Downing, Timothy.....	Briar Bluff.....
Condis, Molcom.....	Spring Valley.....	Drake, George.....	Streator.....
Conly, Patrick.....	DuQuoin.....	Duddy, John.....	Pana.....
<i>Cooper, Charles</i>	Nilwood.....	Dudek, John.....	Kilmundy.....
Cook, Robinson.....	Riverton.....	<i>Duffner, J. W.</i>	Belleville.....
Condon, Charles H.....	Toluca.....	Duncan, Charles.....	Streator.....
Connors, William.....	Peoria.....	Dunham, John F.....	Springfield.....
Connell, Nichol E.....	Springfield.....	Dunlop, John.....	Odin.....
Conrad, William.....	Pana.....	Durkin, Michael.....	Sunfield.....
Costello, Henry.....	Grape Creek.....		
<i>Costor, George</i>			

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Earl, William.....	Braidwood.....	Golden, William D.....	Springfield.....
Eccles, John.....	Salem.....	Goodall, George.....	Assumption.....
Edwards, S. E.....	Centralia.....	Gordon, Ephraim G.....	Wanlock.....
Edwards, Thomas.....	Springfield.....	Grabruck, Emil T.....	Staunton.....
Edmunds, Morgan.....	Mt. Olive.....	Grabruck, R. H.....	do.....
Ehret, Frank A.....	Wesley.....	Graham, Hiram.....	Virden.....
Eller, William.....	Edwardsville.....	Graham, John W.....	Dufermline.....
Emery, Charles.....	Breese.....	Graham, Louis A.....	Jacksonville.....
Emery, Joseph.....	Belleville.....	Graham, William.....	Virden.....
English, Thomas.....	Streator.....	Graham, David L.....	Springfield.....
Erwin, William.....	Belleville.....	Graham, John.....	Marion.....
Essex, George W.....	Soperville.....	Grant, Peter, Jr.....	Peoria.....
Evans, George.....	Lincoln.....	Gratz, Gottlieb.....	Hornsby.....
Evans, John Nine, ex.....	LaSalle.....	Granilick, Jul. M.....	Belleville.....
Evans, John O., ex.....	O'Fallon.....	Gray, Thomas R.....	Springfield.....
Evans, John.....	Bissell.....	Gray, Peter.....	Pana.....
Evans, Albert E.....	Streator.....	Green, Arthur.....	Braceville.....
Evans, William.....	Norris.....	Green, W. H.....	Belleville.....
Evans, William H.....	LaSalle.....	Green, Joseph, ex.....	Marissa.....
Evans, John O., Jr.....	Caseyville.....	Green, John W.....	Springfield.....
Fagan, Michael.....	Spring Valley.....	Greer, John.....	Belleville.....
Fagan, Patrick T.....	Decatur.....	Green, Robert.....	Springfield.....
Fairbairn, Thomas.....	Streator.....	Greenwood, John R.....	Eduburg.....
Fairlie, James.....	Gilchrist.....	Greenwood, Robert.....	DuQuoin.....
Falcetti, John B.....	Glen Carbon.....	Greive, Peter.....	Collinsville.....
Farnsworth, Lawrence, ex.....	Barclay.....	Greive, Peter, Jr.....	do.....
Farnsworth, Thomas J.....	Spaulding.....	Griffin, John.....	Cantrall.....
Felker, John.....	Danville.....	Grinrod, William E.....	Belleville.....
Fellows, Edward.....	Streator.....	Groom, John.....	do.....
Ferguson, John.....	Reed City.....	Grosspich, August.....	do.....
Ferguson, Walter.....	Braidwood.....	Guest, Joseph, ex.....	do.....
Ferguson, William.....	DuQuoin.....	Guest, John.....	do.....
Finfrock, M. M.....	Pana.....	Guiney, James T.....	Braidwood.....
Flavel, Jonah.....	DuQuoin.....	Haddick, John, Jr.....	Cable.....
Fleming, James.....	Decatur.....	Haddick, William, ex.....	Sherrard.....
Fleming, Jacob.....	Kewanee.....	Haddow, Thomas.....	Pana.....
Fletcher, John.....	LaSalle.....	Hagerton, Joseph.....	St. John.....
Fletcher, John J.....	Collinsville.....	Halle, George.....	Ladd.....
Fletcher, T. O.....	do.....	Hallemeuer, Julius, ex.....	Golden Eagle.....
Fletcher, William.....	do.....	Hall, Matthew.....	Braceville.....
Foley, George, ex.....	LaSalle.....	Hatnzel, Daniel.....	Lenzburg.....
Foley, W. E.....	Mapleton.....	Halbert, J. A.....	Westville.....
Forsythe, Peter.....	Centralia.....	Hamilton, Thomas.....	Nashville.....
Forsythe, Robert.....	Murphysboro.....	Hanley, John H.....	Springfield.....
Foster, William.....	Lincoln.....	Hannah, Thomas.....	Iles Junction.....
Foster, James.....	Marion.....	Hardin, Joseph H.....	Vandercook.....
Fohl, Bernard, ex.....	Belleville.....	Harding, Enos.....	Birkenr.....
Francis, T. L.....	Braidwood.....	Harding, Thomas F.....	Danville.....
Frazee, William H.....	Danville.....	Harding, William.....	Lebanon.....
Franken, Benard.....	Lincoln.....	Hardy, Rufus E.....	Murphysboro.....
Frew, Archibald.....	Moweaqua.....	Harkes, William.....	Coal City.....
Freer, James.....	Peoria.....	Harper, William J.....	Springfield.....
Friska, Jan.....	Edwardsville.....	Harper, John.....	Colchester.....
Fritz, William, ex.....	Breese.....	Harrison, Earnest.....	Streator.....
Gaffigan, Michael.....	Petersburg.....	Harrison, John.....	Virden.....
Gaffigan, Patrick J.....	Springfield.....	Harrison, John, ex.....	Odin.....
Gailbraith, George.....	Tamaroa.....	Harrison, William.....	Murphysboro.....
Garrity, John.....	Riverton.....	Harrison, James.....	Athens.....
Gaul, Henry J.....	Ridge Prairie.....	Harrop, James T.....	Seatonville.....
Gavin, Barney.....	Springfield.....	Hartman, Frank, ex.....	Murphysboro.....
Geisler, Ernest.....	Golden Eagle.....	Hartman, Wm.....	Freeburg.....
Gell, Philip.....	Gilchrist.....	Haskins, George H.....	Grape Creek.....
Gibson, Michael.....	Spring Valley.....	Hauck, Fred.....	Glen Carbon.....
Gilbert, Edward.....	Niantic.....	Hawkins, Sidney.....	Belleville.....
Giles, William.....	Gillespie.....	Heyes, Henry.....	Streator.....
Gilchrist, John W.....	Gilchrist.....	Hebenstreit, Bruno.....	Staunton.....
Glas, William H.....	Pana.....	Hebenstreit, E. W.....	do.....
Gluck, Wes. C.....	Spring Valley.....	Hebenstreit, J. P.....	do.....
Gonby, John F.....	Gillespie.....	Helfrich, Henry.....	Rentchler.....
Goddard, Benjamin B.....	DuQuoin.....	Henderson, Edward.....	Springfield.....
Goddard, William.....	do.....	Henderson, Joseph.....	Coal City.....
Golder, William.....	Cuba.....	Henderson, Thomas.....	Marissa.....
Golden, George.....	Springfield.....	Henley, J. H.....	New Athens.....
		Henley, Richard.....	Niantic.....
		Hepard, George.....	Tilden.....

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Henry, Frederick.....	Kewanee.....	Jordan, Robert.....	Streator.....
Henry, John T.....	Pontiac.....	Kahle, Joseph.....	Coulterville.....
Henry, Philip.....	Kewanee.....	Kane, Charles H.....	Dunfermline.....
Heriot, James.....	Spring Valley.....	Kaney, John.....	Centralia.....
Hetherington, Benj. M.....	LaSalle.....	Kay, James.....	Sherrard.....
Hibberd, George.....	Peoria.....	Karrall, Edgar.....	Braceville.....
Hickey, John.....	Springfield.....	Keating, James A.....	Streator.....
Hicks, Rd. J.....	Sherrard.....	Keay, A. H. S.....	Seatonville.....
Higbee, A. W.....	Wyoming.....	Keay, John.....	Springfield.....
Higbee, James.....	do.....	Keefer, William.....	Danville.....
Hill, Marshall.....	Carterville.....	Kell, Matthew.....	Dubois.....
Hillary, Edward.....	Colchester.....	Kell, Peter.....	do.....
Hind, John A.....	Moline.....	Kelley, Bernard.....	Ditchfield.....
Hissong, Charles.....	Tilden.....	Kelley, D. J.....	Carbon Hill.....
Hoffman, John.....	DuQuoin.....	Kelly, Frank S.....	Centralia.....
Holmes, Thomas F.....	Lincoln.....	Kelley, Joseph G., ex.....	Braidwood.....
Horning, Charles A.....	Harrisburg.....	Kelley, Robert D.....	Carbon Hill.....
Houston, Robert.....	Percy.....	Kelley, J. D., Sr.....	do.....
Howell, Thomas H.....	DuQuoin.....	Kempper, Henry.....	Gillespie.....
Howell, D. J.....	do.....	Kenney, Thomas.....	Springfield.....
Howells, Eben.....	Braceville.....	Kerr, John.....	Rushville.....
Howells, T. J.....	DuQuoin.....	Kidd, Alexander.....	Oglesby.....
<i>Hoye, James</i>	Braidwood.....	Kidd, Andrew.....	do.....
Hoye, William.....	do.....	Kidd, W.....	Ridge Prairie.....
Hoddy, T. H.....	Staunton.....	<i>Kidd, Neugne</i>	do.....
Hudson, Thomas.....	Etherly.....	Kienbush, David.....	Edwards Station.....
Hughes, James.....	Braidwood.....	Kirby, James.....	Athens.....
Hughes, John W.....	do.....	Kirchner, Frank.....	Belleville.....
Hughes, Hugh J.....	Pana.....	Kirkwood, Martin.....	Berkner.....
Hughes, John J.....	Litchfield.....	Klinginfus, Otto.....	Belleville.....
Humme, J. A.....	Hillary.....	Klinginfus, Emil.....	do.....
Hummert, Henry.....	Breese.....	Kloever, Joseph.....	Pana.....
Humphreys, Edward.....	Murphysboro.....	Knapp, Charles.....	Seatonville.....
Hunt, Albert J.....	Edwards.....	Knies, Henry.....	Breese.....
Hutton, James, ex.....	Tallula.....	Kortkamp, Wm.....	Hillsboro.....
		<i>Kramer, Anthony F</i>	Sato.....
		Krantz, Jacob.....	Belleville.....
Iberson, James.....	Athens.....		
Irwin, James M.....	Pontiac.....	Lacour, August.....	Bartonville.....
Issinghaus, William.....	Lebanon.....	Laesser, Adolph.....	Belleville.....
Izat, William.....	Litchfield.....	Lauder, Alexander.....	Carterville.....
		Launoe, Frank.....	Worden.....
Jackson, George W.....	Cable.....	Large, James M.....	Athens.....
Jacobson, Charles P.....	St. David.....	Laws, J. M.....	Cuba.....
James, John.....	Mt. Olive.....	Lawson, John.....	Mt. Olive.....
James, Johan.....	Grape Creek.....	Lawson, Thomas.....	Lake Creek.....
Jaques, William.....	Belleville.....	Ledford, Edward E.....	Harrisburg.....
Jaques, Richard.....	do.....	Lee, Robert.....	Cable.....
Jefford, R. H.....	Kingston Mines.....	Lee, Robert.....	Sherrard.....
Jefford, Thomas H., ex.....	Kingston.....	Lee, Shellcross G.....	Canton.....
Jeffrey, Peter.....	Carterville.....	Lee, William J.....	Cable.....
Jenking, Alexander.....	Dunfermline.....	Lehwold, Herman A.....	Springfield.....
Jenkins, Thomas C.....	Murphysboro.....	Leming, W. C.....	DuQuoin.....
Jenkins, J. A.....	Dunfermline.....	Lettsome, William.....	Carbon Hill.....
Jenkins, John L.....	Fairburg.....	Lettsome, Absalom.....	do.....
<i>Jeremire, William M</i>	DuQuoin.....	Lewis, Charles F.....	Sparta.....
Jerrell, John W.....	Equality.....	Lewis, James.....	Bryant.....
John, Evan D.....	Spaulding.....	Lewis, William.....	Streator.....
Johnston, Cochran.....	Spring Valley.....	Lindley, Richard.....	Collinsville.....
Johnston, Samuel.....	Oglesby.....	Lindsay, John O.....	DuQuoin.....
Johnston, William.....	Marion.....	Linsky, P. J.....	Braidwood.....
Jolly, Thomas J.....	Collinsville.....	Lister, James H.....	Peters Station.....
Jones, Charles.....	Marissa.....	Little, Peter.....	Peoria.....
<i>Jones, David</i>	do.....	Little, Thomas.....	Summerfield.....
Jones, D. L.....	Taylorville.....	Lloyd, David J.....	Edinburg.....
Jones, John T.....	Lebanon.....	Lloyd, Rowland R.....	Barclay.....
Jones, Edward.....	Oglesby.....	Lloyd, John E.....	Danville.....
Jones, Harry D.....	Riverton.....	Lloyd, Thomas.....	Kentchler.....
Jones, John H.....	DuQuoin.....	Long, Thomas.....	Wanlock.....
Jones, Logan.....	Marissa.....	Lord, John S.....	Springfield.....
Jones, T. L.....	Ladd.....	Lord, Henry L.....	Virden.....
Jones, William.....	Marissa.....	Love, John W.....	Carbon Hill.....
Jones, William E.....	Shfield.....	Lowery, Frank.....	Orchard Mines.....
Jones, William E.....	Wesley City.....	Lumaghi, Joseph.....	Collinsville.....
Jones, William M.....	Tamaroa.....	Lumaghi, Louis F.....	do.....

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Macke, P. H.	Ledford	McCleary, John	Cantrall
Malcolm, William J	Braceville	McCleary, James	Kangley
Malloy, Henry E.	Decatur	McClintock, John	Murphysboro
Mallon, Harry	Springfield	McCraner, James	Girard
Malone, Frank	Pickneyville	McCride, David	Oglesby
Maltby, William	Braidwood	McCullough, W. F.	Mapleton
Mann, Jacob	Mascoutah	McDill, James	Pana
Marland, John, Jr.	Wenona	McDonald, Robert	Streator
Marland, John, Sr., ex.	do.	McDonald, William	Braidwood
Marsh, James	Riverton	McFadden, Joseph	Danville
Martin, Charles	Middle Grove	McFarland, William A.	Edwardsville
Martin, George	Farmington	McGreachin, Robert	Sorento
Mason, Eli	Edinburg	McGinnis, John	Springfield
Mason, Mark, Jr.	Sato	McGinnigal, John	Murphysboro
Massie, John G.	Marissa	McGinnigal, James	Marissa
Matthews, W. S.	Kinmundy	McGinnigal, Bernard	Spring Valley
Maxwell, Angus	Carlinville	McKean, Isaac	Coal City
Maule, Alexander	Belleville	McKeown, Frank	Decatur
Mays, John F.	Pana	McKernan, James	Collinsville
McDill, Duncan	Oglesby	McLearn, Archibald	do.
McEhan, Patrick	Breeds	McLaughlin, William	Auburn
McEhan, Peter	Williamsville	McLaughlin, John	Girard
Michaels, Theodore	Belleville	McLean, Robert	do.
Millard, John	Peoria	McManamon, Patrick F.	Spring Valley
Miller, Edward	Sorento	McMorrow, Michael	Farmington
Millburn, Thomas	Loceyville	McMath, George	Cartersville
Middleton, James L.	Sandoval	McMurtie, A. B.	Bryden
Michaels, Lewis	Belleville	McWhinnie, Andrew	Virden
Michaels, Otto L.	do.	McMorrow, Thomas	Farmington
Miller, Alexander	Ridge Prairie		
Miller, Hugh	Coal City	Neal, Reese	Kangley
Miller, William	Lenzburg	Nael, Albert M.	Murphysboro
Miller, George W.	Pawnee	Neal, William	do.
Milem, John	Norris	Needles, Thadeus	Glenburn
Millet, Thomas	Collinsville	Neeson, Richard	Divernon
Millhouse, John G.	Spring Valley	Neil, Peter, ex.	Bunker Hill
Mills, T. J.	Cable	Newcomb, H. C.	Pana
Mitchell, T. J.	Pana	Newman, Henry T.	Springfield
Moffat, R. E.	Percy	Newsam, John	Kingston
Moffat, Thomas	do.	Newsam, Richard	Orchard Mines
Monaghan, Edward	Carbon Hill	Newsam, Richard, Jr.	Kingston Mines
Monaghan, William	Braidwood	Newsam, Thomas	do.
Moore, Alexander J.	Springfield	Newsam, Thomas, Jr.	do.
Moore, Samuel	Chicago	Nesbit, Charles, ex.	Millstadt
Moreland, John, Jr.	Wenona	Nevenor, John	Belleville
Moran, Mark	Pekin	Nevill, George W.	DuQuoin
Morin, Jeremiah	Danville	Nicholson, George A.	Cuba
Morrin, D. A.	do.	Nicholson, William	do.
Morgan, George	Springfield	Noll, Peter	Belleville
Morgan, Joseph	Streator	Nold, Fred	Freeburg
Morgan, Isaac B.	Ladd	Nordeen, Peter	Galva
Morris, G. W.	Lebanon	Notman, George	Streator
Morris, J. H.	Nashville		
Morris, James F.	Springville	O'Beirne, John	Spring Valley
Morris, P. K.	Roanoke	O'Brien, John W.	Toluca
Morris, William M.	Belleville	O'Brien, John J.	Marquette
Morris, Joseph	Nashville	O'Brien, James	Belleville
Morris, Robert	Marion	O'Brine, Patrick J.	Spring Valley
Morrissey, Thomas	Lebanon	O'Brine, William	Pana
Morrison, D. H.	Girard	O'Connor, James	Spring Valley
Morton, Andrew	Virginia	O'Connor, John	Braidwood
Morton, Robert	do.	O'Connor, Patrick F.	Paisley
Moss, Thomas	Staunton	O'Leary, John	Marquette
Mould, Thomas R.	O'Fallon	Opie, William	Sandoval
Murdock, John	Breeds	Owen, William	Tallula
Muir, Hunter	Etherly	Owens, Robert	Marlon
Murphy, Jerry	Chatham		
Murphy, John	Braidwood		
Murphy, Patrick	Springfield		
Murray, A.	Nashville		
Murray, Hugh	Sparta	Parker, Albert	Collinsville
Murray, J. H.	Galva	Passent, Wm. C.	Barclay
Murrie, Archibald	Centralia	Patchet, John	Murphysboro
Mustard, George	Norris	Patterson, J. C.	Assumption
McAllister, Hector	Streator	Peart, John	Braidwood
McFarney, James	Girard	Penwell, C. T.	Pana
McCann, Patrick	Lincoln		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Percell, Thomas.....	Norris.....	Rollo, George.....	Mount Olive.....
Peterf, J. D.....	Murphysboro.....	Rollo, John.....	Gillespie.....
Pettier, Moses.....	Spring Valley.....	Rollo, William.....	Pana.....
Phillips, James.....	Minonk.....	Rookin, Thomas.....	Edwards Station.....
Pick, Edward.....	Centralia.....	Ross, David.....	Oglesby.....
Pickett, Robert.....	Spring Valley.....	Rosbottom, James.....	Kingston Mines.....
Picton, Joseph.....	St. David.....	Rowland, Charles, ex.....	Belleville.....
Picton, John W.....	Farmington.....	Rundle, John C.....	Colchester.....
Piercer, Robert.....	Harrisburg.....	Rundle, William.....	Pekin.....
Pierce, William.....	Edinburg.....	Rutledge, Walton.....	Alton.....
Poelker, Joseph.....	Germanatown.....	Rutledge, J. J.....	Staunton.....
Pool, Edgar E.....	Murphysboro.....	Ryan, James.....	Springfield.....
Potter, George.....	Mapleton.....	Ryan, Thomas.....	N. Springfield.....
Postle, John.....	Braceville.....		
Powell, Albert E.....	Belleville.....	Sangrelet, Marshall.....	Mount Olive.....
Powell, Evan.....	Murphysboro.....	Sanders, John M.....	Hanna City.....
Powell, David, ex.....	Braceville.....	Sansom, Henry S., ex.....	Streator.....
Powell, J. E.....	Sato.....	Sauer, Frederick.....	Belleville.....
Powell, Thomas H.....	Belleville.....	Scaife, William.....	Coal City.....
Powell, Samuel.....	Roanoke.....	Schroll, Joseph.....	Bartonville.....
Prince, Thomas.....	Gillespie.....	Schram, Richard.....	Belleville.....
Proctor, Michael J.....	Toluca.....	Schellschmidt, Ernst.....	East Peoria.....
Prudent, Edward.....	Centralia.....	Scully, William J.....	Glen Carbon.....
Pryce, John M.....	Coal Valley.....	Scurrah, Castling R.....	Braceville.....
Pugh, Daniel.....	St. John.....	Secor, Frederick D.....	Odin.....
Pullen, Charles.....	Litchfield.....	Senloe, George.....	St. John.....
Pullen, James.....	Sorento.....	Sevan, Charles.....	Danville.....
Pye, William.....	Bartonville.....	Shaw, James.....	Peoria.....
		Sharp, Montgomery, ex.....	Coal City.....
Raby, Robert A.....	Cuba.....	Sholeen, R. A.....	Galva.....
Radford, Thomas, ex.....	Bloomington.....	Sholl, Joseph.....	Bartonville.....
Radford, William.....	Cuba.....	Shields, Frank D.....	Pana.....
Radford, James.....	Springfield.....	Schuler, Charles.....	Gilchrist.....
Radford, William T.....	Bloomington.....	Sidall, John S.....	Pana.....
Rae, Robert.....	Braidwood.....	Sidall, James.....	Streator.....
Ramsey, Charles J.....	Gillespie.....	Siddle, John.....	Edwardsville.....
Randle, Jesse.....	Birkner.....	Simkin, Samuel.....	Streator.....
Rarick, Phil. W.....	Glen Carbon.....	Simmons, Thos.....	Canton.....
Rauth, John.....	Belleville.....	Simpson, Isaac.....	Glen Carbon.....
Rasmussen, James E.....	Mineral.....	Simpson, David.....	Spring Valley.....
Rasbottom, Frank.....	Kingston.....	Simpson.....	Springfield.....
Reagan, Daniel.....	Muddy Valley.....	Simpson, George A.....	do.....
Reavley, Robert.....	Riverton.....	Simpson, George C.....	do.....
Redyard, John.....	Odin.....	Simpson, William J.....	Collinsville.....
Reeb, Philip.....	Belleville.....	Simpson, Thomas.....	do.....
Reed, W. M.....	Girard.....	Simpson, Thomas.....	O'Fallon.....
Reed, Wm. B.....	Wilman.....	Sisk, A. J.....	Equality.....
Reents, August.....	Kramm.....	Skinner, Alexander.....	Diamond.....
Reese, Daniel.....	Danville.....	Skinner, David.....	do.....
Reld, Andrew.....	Springfield.....	Skinner, John.....	do.....
Reid, Joseph.....	Marion.....	Skinner, John.....	Astoria.....
Reilley, Edward.....	Danville.....	Skelton, A. H.....	Coal City.....
Reimann, John.....	Belleville.....	Sloan, Edward C.....	Wesley City.....
Rennison, Henry.....	St. John.....	Small, James.....	Middle Grove.....
Reynolds, William.....	East Peoria.....	Smethurst, Nathan.....	Spring Valley.....
Reynolds, John.....	Streator.....	Smith, Alexander M.....	Sandoval.....
Rhodes, Jefferson.....	Pana.....	Smith, David P.....	Dawson.....
Richards, John.....	Murphysboro.....	Smith, Felix.....	Birkner.....
Richardson, Joseph.....	Litchfield.....	Smith, James.....	LaSalle.....
Richardson, Robert.....	Carterville.....	Smith, George A.....	Sandoval.....
Ridgely, O. L.....	Mt. Olive.....	Smith, James L.....	Mount Olive.....
Ritchie, Alex., Sr.....	Clinton.....	Smith, James.....	East Peoria.....
Ritchie, A., Jr.....	Trenton.....	Smith, James L.....	Riverton.....
Roberts, Benjamin D.....	Streator.....	Smith, James P.....	Collinsville.....
Roberts, Hiram.....	Collinsville.....	Smith, Henry W.....	Springfield.....
Roberts, John D., ex.....	Streator.....	Smith, Joseph.....	Bloomington.....
Roberts, Thomas D.....	do.....	Smith, T. J.....	Pana.....
Robinson, Henry.....	Gardner.....	Smith, William.....	Athens.....
Robinson, John T.....	Kingston Mines.....	Smith, William G.....	Riverton.....
Robinson, L. E.....	do.....	Smith, Thomas.....	Belleville.....
Rodden, John.....	Pana.....	Smith, W. J.....	Girard.....
Rodenburg, Charles.....	Belleville.....	Sneddon, Richard.....	Virden.....
Roe, Samuel.....	Oglesby.....	Sneddon, Alexander.....	Peoria.....
Roe, Thomas.....	do.....	Sollenberger, Harry C.....	Dunfermline.....
Rogers, Charles.....	DuQuoin.....	Solamon, John.....	Springfield.....
Rogers, Josiah.....	Braidwood.....	Soloman, Peter H.....	do.....

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Spires, Alfred.....	Braceville.....	Walsh, Patrick.....	Springfield.....
Springer, Albert R.....	Glen Carbon.....	Walsh, Peter P.....	Pleasant Plains..
Staehele, August.....	Belleville.....	Walters, Wm. H.....	Staunton.....
Stanton, William E., ex.....	Colchester.....	Wanless, Wm. H.....	Riverton.....
Stearns, James.....	Hallidaysboro.....	Wantling, T. J.....	Peoria.....
Steiner, Benjamin.....	Sato.....	Wantling, Thomas.....	Pottstown.....
Steel, Alexander.....	Streator.....	Walters, Thomas W.....	Ladd.....
Steel, Daniel.....	Collinsville.....	Warren, James M.....	Herrin.....
Steel, James.....	Spring Valley.....	Watson, George R.....	Wyoming.....
Steel, Neal.....	Centralia.....	Watts, Thomas J.....	Elmwood.....
Stewart, D. G.....	Seatonville.....	Watts, William.....	do.....
Stirrat, James.....	Peoria.....	Weber, Henry.....	Murphysboro.....
Stockett, Howard N.....	Springfield.....	Webster, Richard.....	Collinsville.....
Stockett, Lewis.....	Collinsville.....	Weeks, Thomas.....	Streator.....
Stockett, Thos. R., Jr.....	St. Louis, Mo.....	Weisenborn, F. E.....	Mt. Olive.....
Stockman, W. H.....	DuQuoin.....	Wenneborg, Otto.....	Springfield.....
Stoneburner, L. L.....	Moweaqua.....	Westwater, David.....	Pekin.....
Storlie, Archibald.....	Seatonville.....	Westwood, Albert.....	Belleville.....
Stratman, Henry, ex.....	Springfield.....	Westwood, John.....	Streator.....
Straley, Peter.....	Canton.....	Westwood, Thomas.....	Belleville.....
Strebel, George.....	Edwardsville.....	Wheatcraft, James.....	Elmwood.....
Strickland, John.....	Coal City.....	Whennen, Charles.....	Oglesby.....
Sutton, Thomas.....	Milstadt.....	Whitaker, John.....	Collinsville.....
Swansberg, John L.....	Danville.....	Whitaker, Wm. J.....	do.....
Swarthout, J. P.....	Peoria.....	White, John R.....	Belleville.....
Syson, Frank.....	Niantic.....	White, Michael.....	Virdeen.....
		White, Owen.....	Seatonville.....
		Whitehead, Joseph.....	Farmington.....
		Wild, James.....	Murphysboro.....
Tallman, John, ex.....	Kangley.....	Wiley, Robertson.....	St. David.....
Tattersall, George.....	Seneca.....	Wilkinson, Frank.....	Westville.....
Taylor, Charles.....	Edwards.....	Wilkinson, T. H.....	Diamond.....
Taylor, Daniel.....	do.....	Williams, James.....	Murphysboro.....
Taylor, Henry.....	Belleville.....	Williams, Jeff.....	Farmington.....
Taylor, James.....	Edwards.....	Williams, John.....	Riverton.....
Taylor, Joseph.....	Springfield.....	Williams, Louis.....	Belleville.....
Taylor, Thomas, ex.....	O'Fallon.....	Williams, Robert H.....	Girard.....
Taylor, Thomas, ex.....	Springfield.....	Williams, Walter.....	DuQuoin.....
Tenney, Charles.....	Danville.....	Williams, W. W.....	Hornsby.....
Thain, James.....	Riverton.....	Williamson, Wm.....	Staunton.....
Thom, Alexander, ex.....	Coal City.....	Wilson, John.....	Coal City.....
Thomas, H.....	Westville.....	Wilson, David.....	Murphysboro.....
Thomas, John R.....	Ladd.....	Wilson, David.....	Spring Valley.....
Thomas, T. J.....	Collinsville.....	Wilson, Hugh.....	Kinmundy.....
Thomas, Reese.....	Spanning.....	Wilson, Alexander.....	Carbon Hill.....
Thomas, David B.....	Murphysboro.....	Wilson, Hiram.....	Carbondale.....
Thomas, Richard.....	Ridge Prairie.....	Wilson, H. C.....	Pekin.....
Thome, Martin, ex.....	Bartonville.....	Wilson, John B.....	Sparta.....
Thompson, John.....	DeSota.....	Wilson, John J.....	Wesley City.....
Thompson, Robert C.....	Murphysboro.....	Wilson, Robert.....	Roanoke.....
Thompson, Mark.....	Sherrard.....	Wilson, William.....	Middle Grove.....
Thornton, James.....	DuQuoin.....	Wilson, Thomas.....	Norris.....
Thorand, Joseph.....	Trenton.....	Wilson, W. R.....	Reed City.....
Tolle, E. B.....	Kingston Mines.....	Winning, James.....	Cartersville.....
Tregoning, Walter.....	Murphysboro.....	Winning, Robert.....	do.....
Twomley, Edwin, ex.....	Coal Valley.....	Winterbottom, John.....	Murphysboro.....
Turton, William.....	Edwardsville.....	Winters, Samuel P.....	Bartonville.....
		Wittman, Daniel.....	New Baden.....
		Walschlag, Stephen, ex.....	Peoria.....
Ulrich, Casper.....	Tilden.....	Wood, Henry.....	Streator.....
		Woods, William, ex.....	Morris.....
Vallow, Charles.....	Kinmundy.....	Wright, John.....	Belleville.....
Vandebur, John, ex.....	Springfield.....	Wright, J. W.....	Kingston Mines..
Vicary, John, ex.....	Lincoln.....		
Vose, John.....	Springfield.....	Yates, John.....	Belleville.....
		Young, Hiram.....	Girard.....
		Young, Hugh G.....	Braidwood.....
Wagner, I.....	Mapleton.....		
Wallace, David.....	Cartersville.....		
Waland, Ed. S., ex.....	Bartonville.....	Zink, Peter A.....	Belleville.....
Walsley, George.....	East Peoria.....	Zoller, Robert H.....	Braidwood.....
Walschtag, Stephen.....	Peoria.....		

MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
<i>Adams, Charles T.</i>	Rosboro.....	<i>Jerremere, Wm. M.</i>	DuQuoin.....
<i>Aslopp, William H.</i>	New Castle.....	<i>Jones, David</i>	Marissa.....
<i>Andreas, August</i>	Belleville.....		
<i>Angel, Hiram</i>	Glenn.....		
<i>Atkinson, Edward</i>	Streator.....	<i>Keller, George, Jr.</i>	Bartonville.....
<i>Axford, Thomas</i>	Petersburg.....	<i>Kidd, Andrew</i>	Wenona.....
		<i>Kidd, Neugene</i>	Ridge Prairie.....
		<i>Kirley Bernard</i>	Kewanee.....
		<i>Klingenhagen, Henry</i>	Belleville.....
		<i>Kramer, Anthony F.</i>	Sato.....
<i>Bailey, Robert</i>	Sunfield.....		
<i>Bangart, Henry</i>	Lincoln.....		
<i>Bartlett, Thomas</i>	Cuba.....	<i>Laumbattus, Philip H.</i>	Tamaroa.....
<i>Barwell, John</i>	Cutler.....	<i>Lenz, Charles</i>	Belleville.....
<i>Bates, W. H.</i>	Winchester.....	<i>Lloyd, Hosea W.</i>	Sheffield.....
<i>Betz, Charles O.</i>	DuQuoin.....		
<i>Bolander, John</i>	Pekin.....		
<i>Bracken, James A.</i>	Grenvlew.....		
<i>Brown, Jabez</i>	Cutler.....		
<i>Brown, Thomas M.</i>	Pickneyville.....	<i>Mason, Mark, Jr.</i>	Sato.....
<i>Bunting, J. H.</i>	Grape Creek.....	<i>Maale, Robert</i>	Belleville.....
<i>Bushong, Andrew M.</i>	Danville.....	<i>Meehan, Pririck</i>	Breeds.....
		<i>Meehan, Peter</i>	Williamsville.....
<i>Caldwell, James</i>	Elmwood.....	<i>Meredith, C. W.</i>	Augusta.....
<i>Cameron, Duncan S.</i>	Sorento.....	<i>Michaels, Lewis</i>	Belleville.....
<i>Cape, Thomas</i>	Fairview.....	<i>Miller, Nicholas</i>	Lebanon.....
<i>Chere, George</i>	Pleasant Plains..	<i>Miller, William</i>	Lenzburg.....
<i>Christie, David</i>	Murphysboro.....	<i>Milen, John</i>	Norris.....
<i>Collier, Frank J.</i>	Bartonville.....	<i>Millett, Thomas</i>	Collinsville.....
<i>Cooper, Charles</i>	Nilwood.....	<i>Moffatt, Thomas</i>	Percy.....
<i>Coster, George</i>	Grape Creek.....	<i>Monaghan, Edward</i>	Carbon Hill.....
<i>Crawson, Elihu</i>	O'Fallon.....	<i>Morin, Jeremiah</i>	Danville.....
<i>Cummings, William</i>	Rushville.....	<i>Morton, Robert</i>	Virginia.....
<i>Cusack, M.</i>	Edwards.....	<i>Murphy, John</i>	Braidwood.....
		<i>McCleery, James</i>	Kangley.....
<i>Dale, John</i>	Fredonia.....	<i>McDonald, Daniel</i>	Menard.....
<i>Davenport, John</i>	Harrisburg.....	<i>McDowell, James A.</i>	Grape Creek.....
<i>Davis, Caleb</i>	Collinsville.....	<i>McKernan, James</i>	Collinsville.....
<i>Davison, Matthew</i>	DuQuoin.....		
<i>Deans, Henry</i>	Percy.....	<i>Neal, William</i>	Murphysboro....
<i>Donaly, James</i>	Cartersville.....	<i>Nicholson, William</i>	Cuba.....
<i>Duffner, J. W.</i>	Belleville.....	<i>Noyd, Lewis</i>	Galva.....
<i>Entsminger, Emanuel E.</i>	Crab Orchard....	<i>Oexner, Wendelin</i>	West Belleville..
<i>Entwhistle, Robert</i>	Colchester.....		
<i>Erwin, William</i>	West Belleville..		
		<i>Parkin, William</i>	Sweetwater.....
<i>Fagan, Patrick</i>	Decatur.....	<i>Patterson, J. C.</i>	Assumption.....
<i>Fletcher, Adam</i>	Ladd.....	<i>Peurt, John</i>	Braidwood.....
<i>Forsythe, Peter</i>	Centralia.....	<i>Pfander, Fred</i>	Peoria.....
<i>Forsythe, Thomas</i>	do.....	<i>Pickett, Robert</i>	Canton.....
<i>Fowler, Henry</i>	Millersburg.....	<i>Pool, Edgar E.</i>	Murphysboro.....
<i>Franklin, Bernard</i>	Lincoln.....	<i>Price, David</i>	Fairbury.....
		<i>Price, James L.</i>	Danville.....
		<i>Pullen, Charles</i>	Sorento.....
<i>Gilbert, Edward</i>	Niantie.....		
<i>Glenn, John</i>	Peoria.....	<i>Radford, William</i>	Cuba.....
<i>Goodler, Wm</i>	Cuba.....	<i>Randle, Jesse</i>	Birkner.....
<i>Golden, George</i>	Springfield.....	<i>Reynolds, William</i>	East Peoria.....
<i>Graber, Henry</i>	Orchard Mines..	<i>Royster, Moses L.</i>	Peoria.....
<i>Grant, David</i>	Pekin.....	<i>Rusche, Christian</i>	East Peoria.....
<i>Gray, John</i>	Roanoke.....	<i>Ryan, James</i>	Springfield.....
<i>Green, Robert</i>	Springfield.....		
<i>Greenwood, Robert</i>	DuQuoin.....		
<i>Grieve, Peter</i>	Collinsville.....	<i>Schmidt, Frank P.</i>	Limestone.....
<i>Griffith, William A.</i>	Colona.....	<i>Shaw, Nathan</i>	Kramm.....
		<i>Smith, David P.</i>	Dawson.....
<i>Haddick, Robert</i>	Cable.....	<i>Smith, Felix</i>	Breese.....
<i>Haensel, Daniel</i>	Lenzburg.....	<i>Solomon, Robert</i>	Springfield.....
<i>Harrison, Ernest</i>	Streator.....	<i>Spencer, George</i>	DuQuoin.....
<i>Heinz, John L.</i>	LaSalle.....	<i>Stanway, George</i>	Blair.....
<i>Howe, William</i>	Streator.....	<i>Stark, Andrew</i>	Galva.....
<i>Hoye, James</i>	Braidwood.....	<i>Stewart, David J.</i>	Seatonville.....
<i>Hutton, James</i>	Tallula.....	<i>Stuhlsatz, Michael</i>	Kewanee.....
<i>Hattenmeyer, Julius</i>	Golden Eagle.....	<i>Sutton, Thomas</i>	Millstadt.....
		<i>Swan, Charles</i>	Oakwood.....
<i>Jenkins, Eugene</i>	Bartonville.....	<i>Swisher, James E.</i>	St. David.....

Certificates of Service—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Telfer, Alexander W.....	Morris	Westwood, Thomas	Belleville.....
Terrill, Thomas	Colchester.....	Wilkin, John B.	Petersburg.....
Thompson, John	DeSoto.....	Williams, John.....	Sato.....
Thornton, James.....	DuQuoin.....	Williams, John T.....	Coalville.....
Waugh, George, Sr.....	Peoria.....	Williams, Walter.....	DuQuoin.....
		Wilms, William.....	Springfield.....

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY AT MINES
EMPLOYING NOT TO EXCEED TEN MEN.

Name.	Postoffice.	Name.	Postoffice.
Aby, J. J.....	Laura.....	Bexton, William G.....	Colchester.....
Adams, J. M.....	Denmark.....	Bird, Daniel.....	Roseville.....
Aldrage, John.....	Danville.....	Birdois, D.....	Peoria.....
Aldridge, William R.....	do.....	Birdois, John.....	do.....
Aldrich, M. M.....	Geneseo.....	Bigden, Richard.....	Leaman.....
Ahlgren, Emil.....	Kewanee.....	Blessing, George.....	East Peoria.....
Alexander, Orle A.....	Huntsville.....	Blockley, Rufus.....	Equality.....
Allen, James T.....	Pleasant View.....	Blotevagal, William.....	Worden.....
Allen, W. P.....	Spillerton.....	Blue, J. W.....	Grape Creek.....
Allison, John.....	Loding.....	Blue, Ed.....	Grape Creek.....
Allison, Elmer.....	Danville.....	Bode, W. H. H.....	Chesterfield.....
Anderson, Alexander.....	Sato.....	Boden, Ed.....	Preemption.....
Anderson, Lee A.....	Streator.....	Boldwyn, T. W.....	Vergennes.....
Anderson, N. C.....	Ottawa.....	Roostrom, Ben B.....	Wataga.....
Anderson, M. H.....	Knoxville.....	Bonnett, A. H.....	Pilot.....
Anna, Charles.....	Wataga.....	Bowman, G. W.....	Yates City.....
Argus, Leonard.....	Belleville.....	Boyer, A. P.....	Etherly.....
Ascraft, J. W.....	Mayton.....	Braunaman, F. L.....	Danville.....
Atkinson, Amos.....	Colchester.....	Brandt, William.....	Mineral.....
Atkinson, M.....	Kewanee.....	Brannan, James.....	Grape Creek.....
Atkinson, Chas. W.....	Colchester.....	Brinley, Ross.....	Danville.....
Axley, Edward.....	Roodhouse.....	Brophy, M.....	Shelbyville.....
		Brown, John.....	Ottawa.....
Backling, William.....	East Peoria.....	Brown, S. C.....	Lewistown.....
Backofen, Jacob.....	Littletown.....	Brooker, Fred.....	Lowell.....
Bailey, Oliver.....	Carbondale.....	Bryan, John.....	Grape Creek.....
Baird, W. C.....	do.....	Bryner, Leonidos.....	Roseville.....
Baird, Oswald.....	Colchester.....	Buchanan, B. M.....	Streator.....
Baker, L. C.....	Oakwood.....	Bullock, Joseph.....	Collinsville.....
Baker, William H.....	Industry.....	Bunt, Joseph.....	Colchester.....
Baker, Joseph.....	Ottawa.....	Bunting, C. J.....	Danville.....
Bales, Joseph L.....	Danville.....	Burdick, Frank.....	Industry.....
Ball, Samuel.....	North Alton.....	Burk, W. W.....	Conant.....
Banney, H. E.....	Abingdon.....	Burney, Ralph.....	Colchester.....
Barber, William.....	Colchester.....	Butter, William.....	Stonefort.....
Bargreen, Charles.....	Streator.....	Byrnes, John.....	Brighton.....
Barnett, W. M.....	Palzo.....		
Barter, Charles.....	Bryant.....	Cagle, William.....	Frederick.....
Bates, Geo. H.....	Kewanee.....	Cagle, John.....	Littleton.....
Bath, Isaac.....	Lewiston.....	Cagdall, A. C.....	Stonefort.....
Bath, Abraham.....	St. Davids.....	Caldwell, Thomas.....	Avon.....
Bauzh, William.....	Henry.....	Campbell, Ed.....	White Hall.....
Beetler, John.....	Pekin.....	Campbell, Andrew F.....	Roseville.....
Beddou, Benj.....	Danville.....	Campbell, Francis A.....	Viola.....
Beers, M. A.....	Cable.....	Cameron, Henry.....	do.....
Beever, J. H.....	Farmington.....	Carlson, Andrew F.....	Kewanee.....
Begum, Geo. E.....	Ottawa.....	Carrall, C. E.....	Duncan.....
Bell, James.....	Morris.....	Carrell, A. J.....	DuQuoin.....
Bell, Charles.....	Pleasant View.....	Carter, Elmer.....	Camden.....
Beltz, Lindolph.....	Carterville.....	Carter, Joe.....	Kewanee.....
Bennett, Fred.....	Chillicothe.....	Carson, Charles H.....	Flat.....
Benson, William.....	Winchester.....	Carrison, George.....	Colchester.....
Berry, John.....	Macomb.....	Casteter, John.....	Streator.....
Berry, Charles.....	Monica.....	Casteter, William.....	do.....
Berry, W. J.....	Macomb.....	Catton, John.....	West Jersey.....
Berry, R. M.....	Cottage Grove.....	Catton, C. F.....	do.....
Beuer, Jacob W.....	Castletown.....	Chadwick, E.....	Oak Hill.....
Beuer, Joseph.....	do.....	Charlingsworth, Amos C.....	Fosterburg.....

Mine Managers Holding Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Chesney, Alonzo T.....	Ava.....	Ebel, August.....	Belleville.....
Chilton, Richard.....	Kewanee.....	Edison, James.....	Ottawa.....
Chipping, W.....	Canton.....	Edwall, C. W.....	Galva.....
Chorlton, James.....	French Village...	Edwards, Thomas...	Streator.....
Christman, Charles W.....	Sparland.....	Edwards, T. J.....	Crab Orchard...
Clark, James A.....	Equality.....	Edwards, Geo.....	Huntsville.....
Clark, J. H.....	Brimfield.....	Edward, David L.....	Coal Valley.....
Clarkson, William H.....	Edwards.....	Edwards, A. G.....	New Burnside...
Clarkson, Lorenzo.....	Kickapoo.....	Elmwood, A. B.....	Kewanee.....
Clifford, Geo. L.....	Oneida.....	Eiker, Geo. L.....	Knoxville.....
Cody, Richard.....	Peoria.....	Elliott, James.....	Caseyville.....
Coespire, G.....	Galesburg.....	Emerick, Alonzo.....	Farmington.....
Colburn, John R.....	Vandercreek.....	Ennis, James.....	Peoria.....
Colwell, Robert.....	Brimfield.....	Ensinger, E. E.....	Crab Orchard...
Colwell, H.....	Duncan.....	Entwistle, W.....	Colchester.....
Colwell, George.....	Wyoming.....	Erhardt, Anton.....	Belleville.....
Covert, Lewis M.....	Oakwood.....	Ernst, Frank.....	St. Johns.....
Cook, Charles.....	Grape Creek.....	Espley, J. T.....	Morris.....
Cook, James K.....	Etherly.....	Essex, G. W.....	Soperville.....
Cook, W. H.....	Alexis.....	Evans, Ed. E.....	Streator.....
Cook, Louis B.....	Etherly.....	Evans, Lewis.....	Kangley.....
Cooper, Albert W.....	Petersburg.....	Evans, W. L.....	Cottage Grove...
Cowens, W. P.....	Pinckneyville...	Eynman, Albert.....	Lewiston.....
Combs, J. W.....	Kewanee.....		
Coulson, Foster.....	Wyoming.....	Fairley, John.....	Cambridge.....
Cressey, George.....	Colchester.....	Farrell, Hugh.....	Monica.....
Cryer, John H.....	Morris.....	Faust, Jacob.....	Pinckneyville...
Crew, Joseph.....	Chillicothe.....	Fink, Frank.....	Truro.....
Croxton, Fred W.....	Pleasant View...	Fish, William.....	Appleton.....
Croxton, Walter.....	do.....	Fisher, W.....	Murrayville...
Crozica, E.....	Etherly.....	Fisher, Alcide.....	Brighton.....
Crowe, James W.....	Union.....	Flemming, Thomas...	Morris.....
Cunningham, Lewis.....	Danville.....	Flynn, William.....	Briar Bluff.....
Cunningham, R. A.....	Cutler.....	Forester, W. M.....	Equality.....
Cummings, Wm. M.....	Rushville.....	Foster, Geo. W.....	Colchester.....
Curtiss, Sanford.....	Rockbridge.....	Foster, Thurman.....	Carbondale.....
Cutler, F. H.....	Princeville.....	Fox, Thomas.....	Lewiston.....
		Francis, Wm. G.....	Streator.....
Dainty, Jabez.....	St. David.....	Francis, C. W.....	Catlin.....
Dalton, Isam.....	Yates City.....	Fredrickson, Andrew...	Danville.....
Daniel, Jay.....	Danville.....	French, Strawther...	Bradford.....
Daugherty, Robert T.....	Table Grove.....	Frisby, E. O.....	Sparland.....
Davis, Charles.....	Abingdon.....	Frost, Michael.....	Danville.....
Davis, Benjamin.....	Streator.....	Fry, John.....	Ray.....
Davis, T.....	Fayette.....	Fuller, James K.....	Modena.....
Davidson, Thomas.....	Griffin.....		
Dalton, Augustus.....	Yates City.....	Gallagher, W. F.....	Mode.....
Dawson, J. C.....	Deer Park Glen...	Gallaith, Zacharias...	Morris.....
Deaven, Camille.....	Orchard Mines...	Gainey, Thomas.....	Carbon Cliff...
Delaney, Thomas.....	Avon.....	Garland, Samuel.....	Kewanee.....
Dempsey, G. F.....	Equality.....	Geisler, Henry.....	Brighton.....
DeWolf, Ernest.....	Victoria.....	Gensol, Joseph.....	Lewiston.....
Denton, Fred.....	Petersburg.....	Giebelhausen, Gus E...	Peoria.....
Dickinson, Joseph.....	Norris.....	Gerlach, Geo. F.....	Sparta.....
Dickson, Wm. W.....	Colchester.....	Gilbride, Frank.....	Morris.....
Deitrich, Phillip.....	Freeburg.....	Gillette, Charles.....	Elmira.....
Dills, Martin.....	New Burnside...	Hilligan, Jackson.....	Industry.....
Dixon, A.....	Princeville.....	Glenn, Jethn.....	Briar Bluff.....
Dixon, J. E.....	Kewanee.....	Golden, James.....	Kewanee.....
Dodds, T.....	Lafayette.....	Goode, Joseph.....	Lombardville...
Doring, Wm. F.....	East Peoria.....	Goudy, W. S.....	Brimfield.....
Dolan, Peter.....	Wataga.....	Grant, August.....	Kewanee.....
Doty, L. B.....	Truro.....	Greear, William.....	Coal Valley.....
Dougherty, P.....	Preemption.....	Grice, Albert.....	Kewanee.....
Dowell, Allen B.....	Campbell Hill...	Griffiths, Edward.....	Roodhouse.....
Drake, Stephen A.....	Canton.....	Griffiths, Thomas W...	White Hall.....
Draper, A. L.....	Vandercreek.....	Griffiths, D.....	Caseyville.....
Dryer, Andrew.....	Danville.....	Griffiths, James.....	Grape Creek.....
Dudley, Z. F.....	Knoxville.....	Griggs, Allison.....	Brimfield.....
Duff, Robert G.....	Kewanee.....	Grim, David, Jr.....	Victoria.....
Dull, E. B.....	Tennessee.....	Grossman, Louis.....	Smithton.....
Duncan, John.....	Sheffield.....	Grosweiler, Joseph, Jr...	Pekin.....
Dunn, Harvey.....	Oscola.....	Groth, John.....	Carbon Cliff...
Durrant, H.....	Brimfield.....	Groy, Max.....	Kewanee.....
Durham, Simon.....	Canton.....	Guckert, P. P.....	Hampton.....
Dunsford, Charles.....	Absher.....		

Mine Managers Holding Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Gurten, Louis.....	Pinckneyville.....	Johnson, Benjamin.....	Smithboro.....
Guy, Thomas.....	Colchester.....	Johnson, J. E.....	Dunfermline.....
Hadding, James A.....	Wyoming.....	Jones, W. L.....	Bradford.....
Hall, John.....	Colchester.....	Jones, C. S.....	Sato.....
Hall, John.....	Grape Creek.....	Jones, W. W.....	Bradford.....
Hall, Charles.....	Dunfermline.....	Jones, A. J.....	Peoria.....
Hall, Geo. W.....	Newton.....	Jones, A. H.....	Colchester.....
Hamilton, John W.....	Frederick.....	Jones, James H.....	Streator.....
Hamilton, John.....	Cuba.....	Jones, Jno. L.....	Peoria.....
Handley, John L.....	Coal Valley.....	Jones, Jackson.....	Winchester.....
Hannmann, Wm.....	Okawville.....	Jones, W. H.....	Catlin.....
Harnisch, Ernest.....	Brighton.....	Jones, Wm. J.....	Kewanee.....
Harrington, Frank.....	Farmington.....	Jones, Evan A.....	Catlin.....
Harrington, D.....	Danville.....	Jones, Arthur.....	Viola.....
Harris, A. J.....	Tilton.....	Jones, Thomas.....	Peoria.....
Harris, Oliver.....	Canton.....	Joos, Conrad.....	do.....
Harris, Hardy.....	Catlin.....	Jordan, Will.....	St. David.....
Hartman, John.....	Peoria.....	Jordan, Jno. L.....	Trivoli.....
Harvey, John.....	Murphysboro.....	Jordan, E. S.....	Newton.....
Haskins, Alfred.....	Grape Creek.....	Joubost, George.....	Oraville.....
Havens, Bert.....	Truro.....	Jourdan, Wm. L.....	Smithton.....
Heathcock, George.....	Princeton.....	Kabel, Herman.....	Moro.....
Heather, James.....	Morris.....	Kavanaugh, J. A.....	Colchester.....
Heintz, A. F.....	Kickapoo.....	Kay, James.....	Atkinson.....
Hendee, Isaac.....	Bernadotte.....	Kay, William H.....	Morris.....
Henson, John E.....	Denmark.....	Kay, Bert.....	Atkinson.....
Hennemann, Charles.....	Belleville.....	Kay, Robert.....	Briar Bluff.....
Herman, John.....	Oraville.....	Kelly, Thomas.....	Grape Creek.....
Herkstrom, E.....	Victoria.....	Kear, George G.....	Sparland.....
Herrington, Thomas.....	Princeton.....	Kearney, John.....	Shelbyville.....
Herseman, Herman.....	East Peoria.....	Keen, A. G.....	Friendsville.....
Hewitt, William B.....	Chenoa.....	Kempin, Henry.....	Kewanee.....
Hews, W. B.....	Canton.....	Kerr, William.....	Rushville.....
Hickson, David.....	Ottawa.....	Kershaw, J. W.....	Briar Bluff.....
Higbee, Lawrence.....	Princeville.....	Kidd, J.....	Roseville.....
Hissong, Charles.....	Tilden.....	Kielhorn, William C.....	Shawneetown.....
Hibberd, Geo. A.....	Limestone.....	King, Ambrose L.....	Victoria.....
Hillard, E.....	Colchester.....	Kilgore, William T.....	New Burnside.....
Hillier, Walter T.....	Carbondale.....	King, Joseph.....	Pekin.....
Hind, Robert.....	Salisbury.....	King, Henry R.....	Campbell Hill.....
Hinderer, Frank.....	Frederick.....	Kingston, Paris.....	Equality.....
Hoar, William.....	Colchester.....	Kimes, Oscar.....	Streator.....
Hodge, S. M.....	Danville.....	Kipling, William.....	Colchester.....
Hodge, John W.....	Rushville.....	Klingenfus, Emil.....	Belleville.....
Hodge, Benjamin A.....	Danville.....	Knoth, John.....	Roodhouse.....
Hodgett, Absalom.....	Kewanee.....	Kortkamp, A.....	North Alton.....
Hodgson, Wm.....	Colchester.....	Lamay, David.....	Monica.....
Hogercamp, Walter.....	Pontiac.....	Lamb, Edwin.....	Kewanee.....
Hohimer, Harry.....	Petersburg.....	Lambert, Austin H.....	Keensburg.....
Horrocks, Benj.....	Henry.....	Lane, James.....	Peoria.....
Howard, Charles.....	Modena.....	Laity, Richard.....	Colchester.....
Hudson, Samuel.....	White Hall.....	Laurer, Nick.....	Pinckneyville.....
Humes, Michael.....	Colchester.....	Lealard, John.....	Grape Creek.....
Hurst, John.....	Belleville.....	Lee, Thomas.....	Youngstown.....
Isackson, Martin.....	Wataga.....	Lee, James.....	Alexis.....
Isaacson, P. O.....	do.....	Leeper, Charles W.....	Equality.....
Ingram, Robert H.....	Sparland.....	Lewis, Charles E.....	Galesburg.....
Irwin, James.....	Green River.....	Lewis, Wallace.....	Cambridge.....
Ivans, W. L.....	Cottage Grove.....	Lievrance, B.....	Youngstown.....
Jacobe, John.....	Wataga.....	Lillman, Alfred.....	Cable.....
Jaquot, Augustare.....	Danville.....	Lincoln, E.....	Kewanee.....
Jack, John.....	Marion.....	Linden, P.....	Canton.....
Jamieson, E. J.....	Loding.....	Lindbeck, P.....	Wataga.....
Jameson, Guy.....	do.....	Lingast, L.....	Grape Creek.....
Jarrell, Miles.....	Cottage Grove.....	Little, George.....	Roseville.....
Jayne, Richard.....	Cuba.....	Little, John T.....	Roodhouse.....
Jenkins, D. A.....	Danville.....	Little, J. H.....	do.....
Jenner, A. T.....	Pinckneyville.....	Littlefield, Joseph.....	Brimfield.....
Johnson, C. E.....	Canton.....	Lloyd, Elisha.....	Danville.....
Johnson, Cornelius F.....	Middletown.....	Lloyd, Benj. F.....	do.....
Johnson, J.....	Farmington.....	Lockane, David L.....	Lewiston.....
		Lodging, E.....	Lodging.....
		Loper, J. B.....	Chesterfield.....

Mine Managers Holding Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Lord, James.....	Galva.....	McElwee, Charles P.....	Winchester.....
Lowry, Samuel.....	Lewiston.....	McGovern, T. B.....	Oneida.....
Loy, D. O.....	Atkinson.....	McGovern, S.....	do.....
Lucking, Edward J.....	Fosterburg.....	McGuire, John.....	Aisey.....
Lyons, Maxwell.....	Coal Valley.....	McGuire, Patrick.....	Winchester.....
		McKahan, Sam'l R.....	Alexis.....
		McKane, R.....	Galva.....
Mable, William.....	Fairview.....	McKe'n, William H.....	Danville.....
Mahler, G. W.....	Ray.....	McLain, William H.....	Equality.....
Malone, Harry.....	DuQuoin.....	McMichael, T. M.....	New Burnside..
Mallergren, James W.....	Petersburg.....	McMillin, William J.....	Streator.....
Mansill, Richard.....	Rock Island.....	McNaught, Henry.....	Williamsfield.....
Martin, William, Sr.....	Colchester.....	McNeil, William.....	Griffin.....
Martin, G. W.....	Laoc.....		
Martin, J. B.....	do.....	Nee, John J.....	Colchester.....
Martin, J. W.....	Farmington.....	Nelson, James.....	Knoxville.....
Martin, Fred.....	Peoria.....	Nelson, Louis.....	Streator.....
Martin, John H.....	Canton.....	Nelson, Nels.....	Ottawa.....
Martin, Patrick.....	Peoria.....	Nelson, John S.....	Morris.....
Martin, William, Jr.....	Colchester.....	Nelson, Chris.....	Chandlerville.....
Marriage, Joseph.....	Grape Creek.....	Neville, William.....	Catlin.....
Marxer, Joseph.....	Millstadt.....	Newell, J.....	Sparland.....
Marley, Richard.....	Atkinson.....	Newton, F. B.....	Modena.....
Marshall, G. A.....	Cuba.....	Newton, Geo. H.....	Toulon.....
Marshall, J. C.....	Caseyville.....	Nibbelin, John.....	Elwood.....
Mason, Frank A.....	Carbondale.....	Nighswonger, Asa.....	Sparland.....
Massey, Jesse.....	Streator.....	Nodeon, E. W.....	Wataga.....
Matsinger, Theodore.....	Crab Orchard.....	Norris, Floyd.....	DuQuoin.....
Mauck, Joseph.....	Danville.....	Nozley, Alfred.....	Golden.....
Mauck, L. F.....	do.....	Nyde, John E.....	Galva.....
Medearis, Jas.....	Henry.....		
Meiker, B. F.....	Danville.....	O'Daniel, Arthur.....	Danville.....
Melvin, Leo.....	Kewanee.....	Owens, Orbly G.....	Stonefort.....
Melven, R.....	do.....		
Meller, Louis.....	Brighton.....	Pahlman, H.....	Bluffs.....
Memmer, L.....	Canton.....	Parker, William.....	Millan.....
Mercy, Geo.....	St. David.....	Parker, W. G.....	Winchester.....
Merrill, R. M.....	Campbell Hill.....	Parle, Sylvester.....	Danville.....
Mescher, W. T.....	LaHarpe.....	Parr, Joseph.....	Princeville.....
Miller, George A.....	Danville.....	Parthan, M.....	Sato.....
Miller, Silas.....	Grape Creek.....	Paul, John.....	Sheffield.....
Miller, Eliza.....	do.....	Payne, Charles C.....	St. Johns.....
Miller, Smith.....	Mapleton.....	Pearson, William M.....	Astoria.....
Miller, L. S.....	Grape Creek.....	Peck, E. E.....	Canton.....
Miller, Geo. A.....	Danville.....	Pendergast, John.....	Soperville.....
Mitchell, Robert T.....	Prairietown.....	Penman, James.....	Streator.....
Mohaker, John.....	Danville.....	Penman, William.....	Preemption.....
Molloy, John.....	North Alton.....	Penn, George.....	Belleville.....
Montooth, Chas.....	Bradford.....	Perkins, John E.....	Osceola.....
Moorman, Mark.....	Illinois City.....	Perry, D. E.....	Colchester.....
Morrison, Alva.....	Modena.....	Peters, Bernard.....	Swansea.....
Moore, Nanly.....	Saline Mines.....	Peters, M.....	Streator.....
Moore, W. F.....	Victoria.....	Peterson, August.....	Soperville.....
Morrison, D. D.....	Danville.....	Phillips, Seblrt.....	Carbondale.....
Morris, Geo. J.....	Millersburg.....	Preston, Bryan B.....	Cable.....
Morgan, Charles.....	Oneida.....	Presswood, C.....	Pinekeyville.....
Mordue, Geo.....	Colchester.....	Price, Benjamin.....	Kewanee.....
Mosher, Charles.....	Etherly.....	Pickett, George.....	Danville.....
Moss, Oliver.....	Vergennes.....	Pistor, William.....	Millstadt.....
Morton, T. J.....	Danville.....	Polonius, George.....	Colchester.....
Mowbray, Jno.....	Atkinson.....	Polit, James H.....	Canton.....
Munts, Wm.....	Streator.....	Poore, William.....	Kickapoo.....
Murphy, Fred.....	Belleville.....	Posten, M. W.....	Briar Bluff.....
Murphy, Led.....	Monmouth.....	Porter, William H.....	Macomb.....
Murphy, Chas. H.....	Canton.....	Portwood, James.....	Lewistown.....
Murchesin, Kenneth.....	Kewanee.....	Potter, L.....	Mapleton.....
Mustard, Elijah.....	Canton.....	Powers, James.....	New Burnside.....
Muzzy, William H.....	Peoria.....	Presson, J. A.....	Carbondale.....
Myers, W. H.....	Carbondale.....	Price, John.....	Wyoming.....
Myers, Geo.....	Ottawa.....	Proctor, Christopher.....	Elmwood.....
Myers, Perry.....	Bethalto.....	Pyle, Joseph F.....	Kewanee.....
Myers, Chas.....	LaHarpe.....		
McAnnally, Jno.....	North Alton.....		
McCartney, C. T.....	Alexis.....		
McClure, Marion.....	Colchester.....		
McCullough, Jas.....	Ottawa.....		
McDonald, Samuel.....	Moro.....		

Mine Managers Holding Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Raddlebeck, Joseph.....	Brimfield.....	Silvis, S.....	Carbon Cliff.....
Raffee, Robert.....	Farmington.....	Simmons, Alfred B.....	Roodhouse.....
Randt, John.....	Bryant.....	Simons, William H.....	Monica.....
Rands, Thomas.....	Chesterfield.....	Sincos, John.....	Alexis.....
Ratliffe, Arthur.....	Neponset.....	Simpson, Charles.....	Wataga.....
Ratley, Charles.....	Cypress Junction.....	Simpson, Newton M.....	Ray.....
Ray, A. B.....	Calin.....	Simpson, Joseph.....	Youngstown.....
Ratley, James E.....	Equality.....	Sitting, H. P.....	Stonefort.....
Ray, William.....	Danville.....	Sliment, James.....	Centre Station.....
Rayborn, George.....	Winchester.....	Smith, John.....	Atkinson.....
Reed, William.....	Soperville.....	Smith, A. J.....	Saline Mines.....
Kennick, William C.....	Modena.....	Smith, Geo. W.....	Colchester.....
Reed, W. B.....	Wilsman.....	Smith, James.....	Princeton.....
Reed, John.....	Herrin.....	Smith, B. F.....	Modena.....
Reib, Conrad.....	Belleville.....	Smith, John.....	Frederick.....
Reid, J. Thomas.....	Saline Mines.....	Smith, Thomas B.....	Streator.....
Reinhardt, Frank.....	Wataga.....	Smith, Thomas.....	Ottawa.....
Reiff, Jacob.....	Kewanee.....	Smith, Charles.....	Sparland.....
Reeves, John.....	Hudgens.....	Sowerly, Joseph.....	Streator.....
Revis, J. H.....	Roodhouse.....	Spangler, Charles.....	Danville.....
Kenshaw, John.....	Eden.....	Sparks, Charles.....	Crab Orchard.....
Reese, Lemuel.....	Streator.....	Sparks, Edgar.....	Astoria.....
Rhoades, Benjamin.....	Shelbyville.....	Spencer, Charles.....	Victoria.....
Ribley, R.....	Cuba.....	Spiller, Henry.....	Herrin.....
Richardson, John.....	Shelbyville.....	Springman, Ed.....	Brighton.....
Richardson, William.....	Moro.....	Stader, W. H.....	Equality.....
Richards, Thomas.....	Ottawa.....	St. Clair, James A.....	Macomb.....
Rich, John C.....	Carbondale.....	Stevens, Isaac.....	Cuba.....
Richard, George.....	French Village.....	Staton, Joseph.....	Pekin.....
Riegels, Adolph.....	Golden Eagle.....	Stevens, John.....	Cuba.....
Riley, J. R.....	Breeds.....	Stine, William.....	Danville.....
Riley, Michael.....	Braidwood.....	Stone, Isaac.....	Colchester.....
Riley, Cyrus W.....	Mineral.....	Stone, William.....	do.....
Riley, Eisorf.....	Atkinson.....	Stone, Charles.....	do.....
Ringer, Benjamin.....	Morris.....	Stone, Thomas.....	Carbon Cliff.....
Robbins, J. W.....	Glasford.....	Storey, Harry.....	Toulon.....
Robinson, Benjamin.....	Wyoming.....	Straley, J. E.....	Canton.....
Robinson, William.....	Colchester.....	Straley, James H.....	Norris.....
Robinson, J. M.....	Elmira.....	Strand, Charles.....	Roseville.....
Robinson, John W.....	Wyoming.....	Stretch, William.....	Shelbyville.....
Robinson, Robert.....	do.....	Strewbinger, Conrad.....	French Village.....
Roberts, Evan D.....	Streator.....	Stockton, O. F.....	Rushville.....
Roberts, David.....	Orchard Mines.....	Strong, Ralph.....	Pleasant View.....
Roberts, Henry F.....	Modena.....	Strong, J. P.....	Shawneetown.....
Roddis, Charles.....	Ipava.....	Suggett, William.....	Breeds.....
Rodell, Frank.....	Wataga.....	Summerson, John.....	Coal Valley.....
Rogers, David.....	Kickapoo.....	Summerson, Robt.....	do.....
Rohr, Joseph C.....	Alexis.....	Swansen, Axel.....	Cable.....
Ronk, G. H.....	Canton.....	Swanson, Otto.....	do.....
Rook, John.....	Brimfield.....	Swanson, Andrew.....	Colchester.....
Roosa, V. L.....	Pleasant View.....	Swenson, John.....	Danville.....
Rose, James.....	Equality.....	Sydall, Peter.....	North Alton.....
Royse, Sylvester.....	South Danville.....	Swafford, William.....	DuQuoin.....
Ryan, Philip.....	Ashland.....	Switzer, James.....	Astoria.....
Russell, John R.....	Danville.....		
Sackville, James.....	Coal Valley.....	Tattersoll, George.....	Seneca.....
Sample, John.....	Laura.....	Taylor, James.....	Belleville.....
Saunders, W. G.....	Monica.....	Taylor, Robert.....	Princeville.....
Saupe, John J.....	Peoria.....	Taylor, Francis.....	Blandensville.....
Savill, Charles A.....	Canton.....	Teare, James.....	Winchester.....
Savill, Jesse.....	Modena.....	Teel, James C.....	Industry.....
Scanlon, M. C.....	Canton.....	Telfer, John K.....	Morris.....
Schaffer, William.....	Danville.....	Telfer, John W.....	do.....
Schmidt, August.....	Millstadt.....	Tesdale, Henry.....	do.....
Scholtz, William.....	Kickapoo.....	Thompson, Jacob.....	Grape Creek.....
Schultz, Fred.....	Braceville.....	Thompson, James F.....	Ray.....
Scott, John.....	Modena.....	Thompson, Joseph.....	Etherly.....
Selbrick, J.....	Monmouth.....	Thompson, Joe.....	Grape Creek.....
Sergeant, Frank.....	Belleville.....	Thomas, William.....	Streator.....
Shaffer, Solomon.....	Summun.....	Thomas, James.....	Danville.....
Shea, John G.....	Danville.....	Thomas, George.....	Sheffield.....
Sherratt, James.....	E. Peoria.....	Thurston, John H.....	Wyoming.....
Shreffler, R. D.....	Pekin.....	Todd, Ralph.....	Kewanee.....
Shelton, W. J.....	Cottage Grove.....	Todd, Geo. B.....	Carlin.....
Shore, William.....	Chandlerville.....	Todd, John.....	Victoria.....
		Toney, A.....	Grape Creek.....

Mine Managers Holding Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Tompkins, C. S.	Mineral	Whalen, M., Jr.	Colchester
Tompkins, Harvey	St. David	Wheelhouse, Samuel D.	Rushville
Towner, L. H.	Bluff City	White, Charles F.	Danville
Treasure, William	Essex	White, Charles	Wyoming
Tucker, Charles	Mineral	White, M. C.	Pawnee
Tucker, Edward	East Peoria	White, Henry	Elmwood
Tucker, P. F.	White Hall	White, Wm. J.	Bartonville
Tulk, M. B.	Colchester	White, John A.	Frederick
Tully, P. F.	Brimfield	Whynn, Wm. E.	Coal Valley
Turner, John	Lewistown	Wilkinson, M. C.	Danville
Turner, George	do	Willcock, Wilson	Astoria
Twiney, William A.	Shelbyville	Williams, Joseph	Mode
Tygett, John	Carbondale	Williamson, Andrew	N. Alton
Tyla, H.	Wataga	Williams, James F.	Kewanee
Tyler, Church	St. David	Williams, Jerome	Tiskilwa
		Williams, Joseph	Preemption
Underwood, J. H.	Equality	Williams, W. J.	Colchester
		Williams, W. P.	Laoc
Vandyke, William	Canton	Willis, Alex	Oraville
Varner, Wilson P.	Marietta	Wilson, George	West Jersey
Vaughn, William	Jubilee	Wilson, John	Colchester
Vaughn, Elijah	do	Wilson, A. E.	Macomb
Vaught, John H.	Shawneetown	Wilson, Thomas E.	Blandinsville
Vezain, George	Ottawa	Wilson, Joseph	Swan Creek
Vickery, Henry	Pottstown	Wilson, Anthony	Danville
Vogt, Leon	Shawneetown	Willstead, Thomas	Rio
		Winchouse, W.	Danville
		Wirming, Robert	Sato
		Wisley, H. C.	Vergennes
Wages, E.	Canton	Wiseman, Ernst	Peoria
Waine, James	Atkinson	Wonderling, Henry	Danville
Wainwright, Arthur	Sweetwater	Wood, Benjamin	Pinckneyville
Walker, James	Mapleton	Woodcock, Wm. H.	Etherly
Wallis, D. J.	New Burnside	Wood, Sam'l	Saline Mines
Walsh, John	Truro	Woodbury, John	Green River
Walsh, John	Milan	Woods, James	St. David
Walton, A. W.	Princeton	Woodard, John	Oakwood
Ward, J. D.	Pulley's Mill	Woodward, W.	Soperville
Watkins, W. J.	Danville	Wonders, Henry	Streator
Watson, William	Wyoming	Worthington, H.	do
Wayland, James	Colchester	Wren, T. K.	Morris
Weimer, J. R.	Cambridge	Wright, Joseph	Fairbury
Wearmouth, Thomas	Youngstown		
Webster, William	Colchester	Yerman, Timothy	Cuba
Weiss, W.	Belleville	Young, John A.	Carterville
Welford, T. H.	Absher	Young, S. J.	Griffin
West, John C.	Pine Grove		
West, John A.	do		
Westerlund, John	Streator	Zink, G. W.	Peoria

HOISTING ENGINEERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—This list includes all the hoisting engineers to whom certificates have been issued prior to Jan. 1, 1902.

Name.	Postoffice.	Name.	Postoffice.
Ablen, Henry	Breese	Becker, Fritz	Mt. Olive
Adams, Nelson	Lincoln	Becker, F. M.	Sandoval
Adams, Wm. H.	Braidwood	Behrend, A. D.	Springfield
Ainsworth, Samuel, jr.	Taylorville	Beeby, William	do
Alexander, Henry	Oglesby	Beese, John E., Jr.	Belleville
Alexander, W. A.	Roseboro	Bell, Mark	Danville
Allen, David	Collinsville	Bell, Frank	Tallula
Allen, C. E.	Troy	Belts, Joseph E.	Belleville
Allen, C. H.	Seneca	Bentley, George	Springfield
Allgood, William	Springfield	Benvenuto, Charles	Dawson
Altman, H. P.	Collinsville	Berkley, N. T.	Cuba
Anderson, Henry	Lincoln	Bertin, Henry	Pana
Anderson, W. C.	Elmwood	Bienert, J. O.	Spaulding
Anderson, Norman A.	Princeville	Bigelow, A. E.	do
Anderson, Z. B.	Sparta	Blake, Albert	Streator
Anderson, Chas. E.	Belleville	Blackman, Ben	Dawson
Andrews, Solomon	Girard	Bialock, Charles F.	Niantic
Anthony, John C.	Belleville	Blair, George	Streator
Appleby, John	East Peoria	Blue, Jesse	Norris
Appleton, Thomas	Virden	Black, Jas. A.	Troy
Archer, Joseph	Barelay	Blomberg, Albert	Sherrard
Archibald, David	Freeburg	Billips, Joseph M.	Kewanee
Armstrong, Martin	Duncan	Boettcher, Alfred	Freeburg
Armstrong, C.	Muncie	Boggs, Dow J.	Kewanee
Armstrong, William C.	Marion	Bohlen, Henry E.	Mt. Olive
Ashman, Joseph	Murphysboro	Bohlander, Edward	Pekin
Atkin, Robert R.	Tilden	Bolton, Mark	Gilchrist
Atwater, Stephen	Clarke City	Boots, James Franklin	Germantown
Averill, C. P.	Colchester	Boring, Frank L.	Odin
Avery, William	Lenz Station	Boston, William H.	Murphysboro
		Boswell, William	Dunfermline
		Boul. Leonard	Belleville
Balley, James F.	Westville	Bradbury, R. D.	Carbondale
Balwer, John	Braidwood	Bradenburg, F.	Belleville
Baird, Robert	Sparta	Bradley, Simon	Edwardsville
Baker, Darius N.	Spillertown	Brants, Eli G.	Pekin
Baker, James E.	Westville	Bradley, Wm. P.	Virden
Baker, C. H.	Fairmount	Brasel, S. R.	Centralia
Balser, Henry	Springfield	Bretz, Anton	Germantown
Balsmith, Edward	Assumption	Bretz, Matt	Belleville
Barnhill, H. G.	Kinmundy	Bromley, Charles	Coal City
Barnhill, Oscar B.	Herrin	Bromley, George, Sr.	Carlin
Barber, C. E.	DuQuoin	Bromley, George, Jr.	Kellyville
Barber, C. W.	do	Broughton, Geo. C.	Coffeen
Barber, William G.	Tilden	Brown, George A.	Iles Junction
Barr, Frank	Centralia	Brown, James A.	Springfield
Barton, C. W.	Cable	Brown, Thomas	Moweaqua
Barton, Charles W.	Fairmount	Brown, Wm. F.	Pontiac
Bateman, Harry	Murphysboro	Brown, Wm. H.	DuQuoin
Bates, Thomas W.	Winchester	Brown, Edward E.	Sparta
Bath, Ameston	Cuba	Brubeck, John W.	Pawnee
Baumgartner, Geo. J.	Edwardsville	Brueggemann, Michael A.	Belleville
Beard, Charles A.	Streator	Bruggeman, Geo.	Nashville
Beatty, James H.	Maecoutah	Bruse, James	Athens
Beatty, Nepha.	do	Buckley, Calvin W.	Sparland

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Burgess, Charles E.	Greenview	Craddock, Robert	Auburn
Burke, Riley M.	DeSoto	Craft, George	Kangley
Burlinson, Aaron	Percy	Craig, Daniel G.	Danville
Burr, Chauncey	Coulterville	Craig, Daniel	do
Bullock, William	Collinsville	Crinigan, Barney	LaSalle
Bumgarner, Ross	Ledford	Croker, Edward	Marquette
Burrell, G. K.	Farmington	Crouch, Millard F.	Nilwood
Burrows, William	Williamsville	Cryder, James F.	Divernon
Butcher, Thomas	Murphysboro	Crickshanks, Robert	Middle Grove
Butt, Thomas R.	Litchfield	Crickshanks, John	East Peoria
Byrne, Michael	LaSalle	Crickshanks, William A.	do
		Cruthers, Zina B.	Taylorville
		Cummings, George	Pana
Cagle, Alfred	Marion	Cumming, Geo. A. P.	Gardner
Cain, Daniel	Ridgley	Cumming, Geo. P.	Spartan
Cain, Daniel P.	do	Cummings, Robert W.	Sparta
Cain, John	do	Cutler, Frank H.	Princeville
Callear, Issac	Pottstown		
Cameron, Daniel	Pana		
Camp, John R.	Westville	Daenzer, Anton	Glen Carbon
Campbell, Fred	Sorento	Dalhous, Frank C.	Staunton
Campbell, W. J.	Coal City	Dalton, Isam	Yates City
Cantrell, H. T.	Farmington	Daly, Thomas	Diamond
Carlson, Alexander	Galva	Dana, John W.	Springfield
Carmichael, Thos.	Springfield	Daniel, James	Belleville
Carpenter, Chas.	Girard	Daniels, Joel	do
Carr, Robert H.	Freeburg	Dankins, Thos. J.	Braceville
Carrington, Eugene	Moweaqua	Darmstadter, William	New Athens
Carsell, Hugh	do	Dave, R. J.	Glen Carbon
Carter, Albert J.	Cutler	Davenport, Thomas	Harrisburg
Caudle, James F.	Sorento	Davis, B. D.	Coffeen
Caulk, Arthur	do	Davis, Carl	St. John
Cearing, Samuel A.	Springfield	Davis, Frank	do
Chapman, J. B.	Petersburg	Davis, Jas. A.	Hillsboro
Chapman, William E.	Salisbury	Davis, Chas. W.	Edinburg
Charpenter, Joseph	Braidwood	Davis, Jackson	Athens
Chester, David	Springfield	Davis, E. E.	Auburn
Chew, Oliver	Sato	Davis, Frank	Lincoln
Chew, B. R.	Carlinville	Davis, Harry J.	DuQuoin
Chitwood, William H.	Catlin	Davis, James P.	Belleville
Chorton, Thomas	Birkner	Davis, John W.	Lake Creek
Church, Van L.	DuQuoin	Davis, John	Belleville
Church, William	Marissa	Davis, L. D.	Coffeen
Christ, Philip	Wenona	Davis, Thomas	Belleville
Clark, Corev	Coal City	Davison, John G.	St. John
Clark, Christopher	Decatur	Davison, Joseph	Sherrard
Clark, C. N.	DuQuoin	Dawson, Van C.	Spring Valley
Clark, John	Marquette	Dawson, John C.	Streator
Clark, John R.	Virden	Day, Benj. F.	Peoria
Clark, John	do	Deans, Robert	Belleville
Clark, Quintin	Braidwood	Deaton, L. B.	Tallula
Claudia, Josh	Pekin	Deaton, William S.	Greenview
Clayton, William	Collinsville	DeBacher, Thomas	Elmwood
Clekner, C. S.	Witt	Decker, William	Ogleby
Clifford, Michael	Kewanee	Dee, Henry	Glen Carbon
Clifton, William H.	Spartan	DeJarnett, Thomas	Mt. Vernon
Cline, John	LaSalle	Delmore, Frank	Springfield
Coatney, Grant	Fairmount	Delapp, Robert E.	Willisville
Collinton, Chas.	Belleville	Delorey, William	Westville
Collingwood, Wm.	Greenview	Dent, William	Diamond
Collingwood, Albert E.	Springfield	Derrington, Walter	Herrin
Collins, Walter	Mt. Vernon	Denton, William	Petersburg
Collins, John	Birkner	Devlin, Francis	Clark City
Colton, George C.	Cartersville	Dick, Robert	Sunfield
Compton, James	Colfax	Dillon, John	Auburn
Compton, Stephen B.	Sorento	Dillon, William	do
Conley, John	Streator	Dixon, Frederick W.	Springfield
Connelly, J. J.	Murphysboro	Dixon, George	Wenona
Conway, John	Collinsville	Dodd, Samuel H.	Pottstown
Conway, Michael	Ladd	Dodwell, Edward J.	Decatur
Cook, Wm. D.	Westville	Doolin, E. W.	Pontiac
Cooper, J. H.	Nilwood	Dochring, Fred	Mt. Olive
Cornelius, Richard	Fairmount	Donck, John	LaSalle
Cottle, Elmer	Buffalo	Donaldson, J. W., Jr.	Dunfermline
Cotton, George	Halidayboro	Doolin, E. J.	Pontiac
Cox, John	Ledford	Dougherty, Joseph	Taylorville
Cox, William	Rutland	Dowler, John	Auburn

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Dowling, Ira F.	Springfield	Frick, U. B.	Lake Creek
Downing, Robert D.	Bartonville	Friend, J. W.	Collinsville
Driscoll, Fred W.	Taylorville	Frier, Jacob	Ormsby
Drake, William	Streator	Friend, Wm. L.	Collinsville
Dray, John	Troy	Friesland, C. M.	Salisbury
Duffy, Glenn E.	Collinsville	Fritz, Gustav	Breese
Duncan, J. R.	LaSalle	Fry, D. W.	Clark City
Dunn, William L.	Clark City	Ferguson, S. P.	Strasburg
Dunsmore, Thomas	Springfield	Fusten, D. H.	Murphysboro
Dunstedler, William S.	Edwardsville		
Durham, James D.	Lake Creek		
Dyer, Harry	DuQuoin		
Eaton, A. C.	DuQuoin	Gahl, Fred T.	St. John
Easton, Geo.	Willisville	Gandy, James W.	Peoria
Eccleston, John	Streator	Gaskins, Asa	Harrisburg
Eddy, Evermont	Athens	Gately, Bernard	Diamond
Eastman, G. A.	Girard	Gately, James	Seatonville
Edwards, George W.	Springfield	Gasnell, George W.	Herin
Elliott, Clarence	Bryant	Gates, Wm. S.	Kankakee
Elliott, H. H.	Centralla	Gallagher, Peter	Clark City
Edwards, Thomas	Spring Valley	Ganghan, James	Braidwood
Ekins, Daniel B.	Springfield	Geer, Benjamin H.	Wolcott
Ekins, Henry	Ridgely	Geer, U. S.	Pekin
Emans, Ransom R.	Farmington	Geer, Chauncey N.	Wolcott
Ellis, Albert	Cable	Gelmour, Allan	Diamond
Elmore, V. M.	Coffeen	Gerner, Fred	Danville
Emery, H. W.	Greenville	Gerjets, Harry	Athens
English, Thomas	Streator	Geyer, J. A.	Wanlock
Erismann, Jacob D.	Niantic	Gibson, John	Sandoval
Erismann, Jesse	do	Gibson, Henry	Coal City
Estes, W. B.	Danville	Gillson, R. W.	Danville
Evans, Albert	Glen Carbon	Girfen, Henry	Troy
Evans, Roderick B.	Girard	Glacken, Hugh	Coal City
Evans, Thomas	Spaulding	Gladlers, Wm	do
Evans, C. L.	Virde	Glass, Reuben	Edwardsville
Evans, Price	Bissell	Glennon, Philip	Williamsville
Evans, W. E.	Danville	Glennon, John	Riverton
Eytman, Frank	Spring Valley	Goalby, Arthur A.	Percy
Eydman, Henry	Coulterville	Goalby, B. F.	do
		Goalby, Frank H.	Stookay
		Goddard, Wm. H.	Spillertown
		Goforth, Wm	Pana
		Gordon, E. J.	Petersburg
		Gordon, Alex. B.	O'Fallon
Fahay, John	Decatur	Gottschalk, Fred	Springfield
Falkenstein, George A.	Astoria	Gould, George	Sato
Farmer, Frank	Bloomington	Gowin, Curtis	Green Ridge
Farley, James	Riverton	Gowin, Frank	do
Farwood, L. C.	Springfield	Grace, John T.	Kewanee
Ferguson, John J.	Spring Valley	Graham, L. A.	Bloomington
Ferren, Edward	Barelay	Graham, William	Springfield
Ferris, W. H.	Marquette	Graden, Orville B.	Taylorville
Fillingham, J. A.	Canton	Graham, Reuben	Virde
Finigan, Thomas J.	Springfield	Grant, Lewis	Pekin
Finnegan, Wm. H.	do	Gray, Thomas	Springfield
Fischer, Phillip	Lenzburg	Gray, Chas. H.	do
Fisher, George	Staunton	Greaves, Walter	Ladd
Fisher, Patrick	Kankey	Green, Joseph	Canton
Fitzsimmons, Maurice	Peru	Green, Daniel	Braidwood
Fletcher, Henry A.	Taylorville	Green, Thomas	Marissa
Forcerson, Andrew	Ladd	Green, Wm. H.	Streator
Foote, Charles	Central City	Greenhaigh, James	Hillsboro
Foote, Wm	Westville	Greenhaigh, William	do
Forister, Robert	Murphysboro	Greenman, Martin	Pontiac
Forister, Wm	do	Greener, George	Greenview
Fortney, John W.	Kinmundy	Grierson, John	Streator
Foster, Albert	Elmwood	Grimmett, Chas. C.	Girard
Foster, A. J.	Litchfield	Grice, Albert	Kewanee
Fox, Frank L.	Assumption	Grievess, David	Birkner
Fox, Fred	Middle Grove	Grievess, James	do
Fox, Wm	Taylorville	Griffin, John O.	Kewanee
Fox, James B.	LaSalle	Groom, Alexander	Belleville
Fox, Thomas	Lincoln	Groom, John, Sr.	do
Frain, Austin	Ridge Prairie	Groom, James	do
Frankland, Tim	Streator	Groom, William	do
Freeman, M. F.	Shelbyville	Groom, John	do
Freeman, E. F.	DuQuoin	Groover, Harmon M.	Canton
		Grubb, Michael	Riverton

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Geistdorfer, Fred.....	DeSoto.....	Hooper, H. H.....	Gillespie.....
Guy, D. F.....	Springfield.....	Hopper, Shelby.....	Catlin.....
Gurick, Howard.....	Litchfield.....	Horton, William T.....	Hornsby.....
		Hord, Alvin.....	Taylorville.....
		Hottinger, J.....	Freeburg.....
Hackett, Owen.....	Spaulding.....	House, C. O.....	St. John.....
Haddick, Wm. L.....	Sherrard.....	Howe, Chas.....	Streator.....
Haensel, Edward.....	Lenzburg.....	Huggins, William.....	Murphysboro.....
Haensel, David.....	do.....	Huggins, J. A.....	Streator.....
Hagler, Charles.....	Fredonia.....	Hughes, William A.....	Springfield.....
Hale, Wm. T.....	Troy.....	Hughes, John C.....	do.....
Hale, James.....	Dunfermline.....	Hull, Lee.....	Murphysboro.....
Haley, Edward.....	Kinmundy.....	Humphrey, Chas.....	Edinburg.....
Hall, G. R.....	Colchester.....	Humphrey, W. F.....	do.....
Hall, G. R.....	Nilwood.....		
Hamilton, Chas. E.....	Canton.....	Ing, George M.....	Marion.....
Hamilton, James H.....	Sparland.....	Ingles, Orie W.....	Glen Carbon.....
Hampton, N. R.....	Murphysboro.....	Irwin, Byron.....	Pana.....
Hand, P. L.....	Peoria.....	Irwin, John.....	Gillespie.....
Hanvey, John.....	Collinsville.....	Irwin, Robert K.....	Pontiac.....
Handle, Ledlie.....	Taylorville.....	Isadore, George.....	Roscboro.....
Hanenstein, J. W.....	Willsville.....	Isadore, Charles.....	Sparta.....
Hanes, W. J.....	Salem.....		
Hankins, John W.....	Sorento.....	Jackson, William.....	Minonk.....
Hanson, William.....	O'Fallon.....	Jacobs, George R.....	Elmwood.....
Hanvey, John J.....	Collinsville.....	Jacobs, James M.....	Moweaqua.....
Hanvey, Robert.....	do.....	Jacobs, William.....	Murphysboro.....
Haddicks, Frederick H.....	Cable.....	Jacobs, W. Sr.....	Peoria.....
Happer, Frank.....	Edwardsville.....	Jamison, John.....	Petersburg.....
Harding, Enos.....	Birdner.....	Jeffrey, James.....	Marissa.....
Harms, Heike.....	Petersburg.....	Jeffrey, John.....	Belleville.....
Harper, Oscar.....	Lebanon.....	Jenkins, John L.....	Danville.....
Hardy, Thomas.....	Springfield.....	Jenkins, T. E.....	Athens.....
Hardy, Thos. W.....	Dawson.....	Jenks, William.....	Bloomington.....
Harnet, Elmer.....	Decatur.....	Johnson, James J.....	Taylorville.....
Harris, J. W.....	Springfield.....	Johnson, John W.....	Birkner.....
Hartman, Frank.....	Murphysboro.....	Johnson, J. S.....	DuQuoin.....
Hartman, John F.....	do.....	Johnson, Robert.....	Pawnee.....
Hartwell, A. Lincoln.....	Marion.....	Johnson, William H.....	Soperville.....
Hartwell, Roy.....	do.....	Johnson, William L.....	Spring Valley.....
Harvey, Wm. R.....	Wanlock.....	Johnston, Joseph R.....	Pontiac.....
Havel, Joseph.....	French Village.....	Johnstone, Thomas.....	do.....
Hawker, J. O.....	Pana.....	Johnston, Thomas B.....	Freeburg.....
Haworth, William.....	Sandoval.....	Jones, George.....	Belleville.....
Hayes, Arthur H.....	Danville.....	Jones, Henry E.....	Staunton.....
Hayes, James.....	Bloomington.....	Jones, John P.....	Marissa.....
Hayler, George L.....	Murphysboro.....	Jones, Jonathan, Jr.....	do.....
Head, John S.....	Assumption.....	Jones, Vernaling L.....	Barclay.....
Hendrick, C. W.....	O'Fallon.....	Jones, Jonathan, Sr.....	Marissa.....
Hennegan, John F.....	Wanlock.....	Jones, Joseph.....	Staunton.....
Henry, Philip.....	Kewanee.....	Jones, Logan.....	Marissa.....
Heppard, George.....	Belleville.....	Jones, Felix E.....	Barclay.....
Herder, Walter.....	Edwardsville.....	Jones, Thomas.....	Muncie.....
Herman, John.....	Belleville.....	Jones, William.....	Marissa.....
Herring, George P.....	Odin.....	Jones, William.....	Braceville.....
Herring, J. P.....	Staunton.....	Jones, John.....	Grape Creek.....
Hershaw, A. F.....	Abingdon.....	Jones, James W.....	Pana.....
Heskitt, John.....	Ridgely.....	Jones, John.....	Marissa.....
Hess, Edward B.....	Morrisonville.....	Jordan, Robert.....	Streator.....
Higbee, Lawrence.....	Wyoming.....	Judd, Charles E.....	Edwardsville.....
Hillard, James.....	St. David.....		
Hillery, John.....	Dunfermline.....	Kalebaugh, Clinton H.....	Astoria.....
Hill, C. C.....	Marissa.....	Karney, Emory O.....	Hallidayboro.....
Hill, C. W.....	Pontiac.....	Keating, Edward F.....	Streator.....
Hill, Emberson.....	Westville.....	Keating, Richard.....	do.....
Hilmes, Henry.....	Astoria.....	Kelley, James D.....	Carbon Hill.....
Hindman, Milo.....	Herrin.....	Kelly, Martin.....	Toluca.....
Hobbs, Francis E.....	Centralia.....	Kelley, Robert D.....	Carbon Hill.....
Hodgson, Edward.....	Murphysboro.....	Kelly, Chas.....	Streator.....
Hodson, Moses.....	Smithboro.....	Kelly, Richard V.....	Cantrall.....
Hoecker, Charles.....	Glen Carbon.....	Kemper, Christian.....	Belleville.....
Hogan, Frank.....	Springfield.....	Kenady, Fred A.....	Cambridge.....
Holland, Arthur J.....	Mt. Olive.....	Kennedy, W. J.....	Edwardsville.....
Holland, Miner.....	Cartersville.....	Kearney, John.....	Peoria.....
Holtkamp, Geo.....	Breese.....		
Hooper, George.....	Glen Carbon.....		

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Kerchner, Howard.....	Belleville.....	McDonald, W. H.....	Pana.....
Kerchner, John.....	do.....	McDonald, William J.....	Percy.....
Kerns, Samuel J.....	Springfield.....	McDonald, Peter G.....	Carbon Hill.....
Kessick, Chas. W.....	Decatur.....	McFarland, F. E.....	Murphysboro.....
Kidd, Alanzo.....	Fairmount.....	McGittigan, Thomas.....	Pana.....
Kilbride, T. C.....	Farmington.....	McGowan, Edward.....	Lincoln.....
Killinger, C.....	Collinsville.....	McGowan, J. R.....	Herrins Prairie.....
Killinger, Harry.....	Germantown.....	McIntire, A. D.....	Sparta.....
Killinger, John.....	Collinsville.....	McKean, Andrew.....	Coal City.....
Kimball, Joel L.....	Hillsboro.....	McKean, John.....	Carbon Hill.....
Kimber, John.....	Ladd.....	McKean, Isaac.....	Coal City.....
King, John.....	Cartersville.....	McKernan, J. B.....	Athens.....
Klugerfus, Wm.....	Belleville.....	McKee, C. L.....	Lake Creek.....
Kinghorn, John.....	Staunton.....	McKeeman, John.....	Belleville.....
King, Alexander, Sr.....	Cartersville.....	McLaughlin, F. T.....	Carbon Hill.....
King, Alexander, Jr.....	do.....	McLaughlin, George.....	do.....
King, L. B.....	Smithboro.....	McMillin, W. M.....	Danville.....
Kirby, Thomas, Jr.....	Peru.....	McNail, Albert.....	Mt. Vernon.....
Kirshner, Frank.....	Belleville.....	McPherson, James.....	Murphysboro.....
Klaus, Louis.....	do.....	McVey, Frank W.....	Roanoke.....
Klugefus, Edward.....	do.....	McVicar, Donald.....	LaSalle.....
Kliukner, Frank.....	Colfax.....	Marland, James.....	Wenona.....
Knapp, Enoch.....	Assumption.....	Marland, William.....	Spartan.....
Krully, Andrew.....	Braceville.....	Marshall, Robert.....	Murphysboro.....
		Martin, Benjamin.....	Toluca.....
		Martin, N. W.....	Marion.....
Lambert, George W.....	LaSalle.....	Marxer, Louis J.....	Milstadt.....
Lanham, John W.....	Danville.....	Massie, J. T.....	Belleville.....
Larkin, James G.....	Athens.....	Mathis, George.....	DuQuoin.....
Laughrey, Jonathan P.....	Carbon Cliff.....	Matthews, C.....	Willisville.....
Lavallier, U. S.....	Chenoa.....	Maule, William.....	Belleville.....
Lawson, George.....	Cable.....	Maxwell, Fred.....	Peoria.....
Layne, J. W.....	DeSoto.....	Mayor, J. W.....	DuQuoin.....
Lebbitter, George.....	Sorento.....	Meadows, William.....	Ledford.....
Leek, Carroll.....	Hallidayboro.....	Michaels, Edward.....	Belleville.....
Lehman, Philip.....	Lebanon.....	Melvin, Elmer.....	Tamaroa.....
Lemons, J. L.....	Girard.....	Meng, George W.....	Freeburg.....
Leslie, G. Linton.....	Rutland.....	Messersmith, Fred.....	Athens.....
Leslie, George.....	Gardner.....	Messenger, Joseph.....	Williamsville.....
Leslie, N. B.....	Braidwood.....	Meyer, Henry.....	Trenton.....
Lewis, Alvin.....	Catin.....	Michaels, Otto L.....	Belleville.....
Lindskey, Martin H.....	Sreator.....	Miller, A. J. F.....	Centralia.....
Lindstrom, Oscar.....	Sherrard.....	Miller, Hugh.....	Braceville.....
Linsky, James.....	Braidwood.....	Miller, James.....	Alma.....
Linsky, Patrick J.....	do.....	Miller, T. H.....	Raymond.....
Little, Peter.....	Peoria.....	Miller, William C.....	Rentchler.....
Little, Thomas.....	Murphysboro.....	Mills, Thomas S.....	Coal City.....
Lockhart, Lewis.....	Niantic.....	Minzer, Robert A.....	Spaulding.....
Lockie, William.....	Cartersville.....	Mize, Walter.....	Pana.....
Loding, Chas. A.....	Loding.....	Mockbee, Luther.....	Niantic.....
Loebel, Frank.....	Trenton.....	Morehouse, Charles L.....	Danville.....
Loeffler, Adolph E.....	O'Fallon.....	Moffat, R. E.....	Cutler.....
Long, Noah B.....	Pontiac.....	Moffatt, John.....	So. Wilmington.....
Lucht, M. F.....	Mt. Olive.....	Monaghan, James.....	Gillespie.....
Lucey, Michael.....	Ridgely.....	Moor, F. J. W.....	Springfield.....
Lundeen, Frank W.....	Galva.....	Morck, John.....	Belleville.....
Lundy, J. P.....	Mt. Pulaski.....	Morgan, John C.....	Springfield.....
Lundley, Ralph.....	Ridge Prairie.....	Morgan, William.....	Carbon Hill.....
		Morris, John W.....	Duvernion.....
		Morris, George.....	Belleville.....
Maasburg, H. C.....	Pinckneyville.....	Morris, James H.....	Nashville.....
Mader, Charles H.....	Staunton.....	Morris, James.....	Mt. Olive.....
Manley, Leo.....	Coffeen.....	Morris, William.....	do.....
Mainwaring, James.....	Braceville.....	Morrissey, Thomas.....	Lebanon.....
Mair, Max.....	Lebanon.....	Morrison, Archie.....	Oglesby.....
Malcolm, Wm. J.....	Braceville.....	Moser, Jacob W.....	Rentchler.....
Malby, Edward.....	Braidwood.....	Mulvaney, Christopher.....	Edwards.....
McAddams, John W.....	Percy.....	Mulvaney, A. T.....	Glenburn.....
McAllister, Thomas.....	Hallidayboro.....	Muren, Alfred L.....	Belleville.....
McCann, David.....	Lincoln.....	Muren, Joseph L.....	do.....
McCartney, C. F.....	Alexis.....	Murphy, Robert T.....	Norris.....
McCauley, Aaron.....	Streator.....	Murphy, Edward.....	Farmington.....
McConachle, Ed.....	Auburn.....	Murphy, James F.....	Springfield.....
McCormack, James J.....	Springfield.....	Murrie, Archie.....	Trenton.....
McCulley, G. L.....	Pawnee.....	Murray, Robert.....	Coal City.....
McCunsky, Tobias.....	Assumption.....	Murray, Christopher C.....	Gillespie.....
McDonald, John.....	Springfield.....	Murray, Hugh.....	Nashville.....

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Murray, Joseph P.	Rosboro.	Powell, F. C.	Seatonville.
Myers, Henry.	Minonk.	Price, Thomas.	Spaulding.
Myers, Peter W.	Carlinville.	Price, Daniel D.	Redlich.
		Prickett, Thomas M.	Niantic.
		Pritchard, H. C.	Lewistown.
Nagle, Jake.	Springfield.	Pugh, Daniel.	St. John.
Neal, Ambrose.	Carlinville.	Pullen, R. H.	Sorento.
Neil, John H.	Carlinville.	Pulver, R. H.	Centralia.
Needham, Daniel.	Breese.		
Negley, Ollie K.	Norris.	Qualis, Nevall.	DuBois.
Neilson, James W.	Sparta.	Quick, A. T.	Sato.
Nelson, Andrew V.	Centralia.	Quick, A. S. H.	do.
Nentzel, Fred H.	Caseyville.	Quick, Seibert T.	Pineckneyville.
Newal, Leroy.	Spartan.	Quigley, Henry.	Halidayboro.
Neveney, James.	Belleville.	Quinn, Joseph.	Springfield.
Nichols, John.	Athens.		
Nickerson, James K.	Colfax.	Raber, F. C.	Troy.
Nicol, William.	Belleville.	Raber, Louis.	Collinsville.
Nicol, Adolph.	do.	Radford, William T.	Bloomington.
Norborg, Peter.	Galva.	Rafter, Michael.	Marquette.
Norborn, Frank.	do.	Rafter, James P.	Spring Valley.
Norris, James J.	Murphysboro.	Ralsbeck, John.	Braceville.
Norris, Floyd.	DuQuoin.	Randle, Caleb.	Belleville.
Norton, William.	Oglesby.	Randle, William.	Freeburg.
Norfleet, Thomas M.	Springfield.	Rasor, J. D.	Staunton.
		Rasch, Aug. F.	Trenton.
O'Brien, Terry.	Decatur.	Rawson, Grant I.	Belleville.
O'Donnell, Michael.	do.	Rawlings, Alex N.	Cantrall.
Ogden, William.	Rentchler.	Ray, Hugh.	Wanlock.
Ogden, Samuel.	Mascoutah.	Reagan, William.	Mt. Olive.
Olinger, J.	Odin.	Reatz, Hans.	Lincoln.
Olson, August.	Streator.	Reading, Curtis.	Niantic.
O'Neal, James.	do.	Reed, John.	Herrin.
Ople, Frederick.	Mt. Olive.	Reed, W. J.	Danville.
O'Riley, Wilber.	Grane Creek.	Reetz, Herman.	Lincoln.
Ord, S. R.	Mt. Vernon.	Reeger, John C.	Pineckneyville.
Osborne, Benjamin.	Streator.	Reese, William M.	Roanoke.
Osburn, Glen L.	do.	Reid, Robert.	Moweaqua.
Otto, John.	Collinsville.	Reid, Archibald.	Springfield.
Outhouse, John.	Johnson City.	Reid, Andrew B.	DuQuoin.
		Reiddlinger, Peter M.	Peoria.
Paddock, W. D.	Pana.	Reinberger, Wm. J.	DuBois.
Padden, J. W.	Spring Valley.	Reilly, Henry.	Toluca.
Parks, James.	Streator.	Reimann, John.	Belleville.
Parker, Joseph.	Murphysboro.	Remelius, Jacob.	O'Fallon.
Patterson, R. J.	do.	Rennard, Jas. Ed.	Grape Creek.
Patterson, W. M.	St. Louis, Mo.	Reichman, George.	Trenton.
Pankey, James M.	Equality.	Renni, Andrew.	Dunfermline.
Patton, Frank L.	Springfield.	Rennie, James.	do.
Pearce, H. L.	Cable.	Renter, August.	Mt. Olive.
Peecher, David.	Braidwood.	Repplinger, H.	Belleville.
Pett, Chas.	Marseilles.	Reyabek, Joseph.	Glen Carbon.
Pemberton, C. H.	DuQuoin.	Rhodes, Almon R.	Chenoa.
Perkes, Ephraim.	Soperville.	Rhoades, Ashley.	Taylorville.
Petrea, J. W.	Vandercook.	Rice, C. D.	Harrisburg.
Peters, Alonzo L.	Peoria.	Rice, James M.	Sunfield.
Petro, Mike.	Braceville.	Rice, Moses.	Murphysboro.
Pendergast, John.	Centralia.	Richards, John T.	Staunton.
Perrins, George H.	Herrin.	Richart, Lee.	Moweaqua.
Peyla, George.	Braidwood.	Richmond, John E.	Coal City.
Pierson, Thomas.	Harrisburg.	Riley, B. J.	Cantrall.
Phillips, J. M.	Athens.	Riley, Michael.	Grape Creek.
Pinkerton, John G.	Hanna City.	Rippitoe, J. G.	Colchester.
Piper, James.	Worden.	Ritchie, John.	Trenton.
Piper, Oliver G.	Staunton.	Roach, Samuel.	Tamaroa.
Piper, Joseph.	Glen Carbon.	Roberts, Charles.	LaSalle.
Pircher, Peter P.	Sandoval.	Roberts, Edward J.	Kangley.
Pitra, Frank.	Odin.	Roberts, Frank L.	Lake Creek.
Pitt, Joseph.	Trenton.	Roberts, John.	Litchfield.
Plenty, Geo. R.	Canton.	Roberts, Jonathan.	Willisville.
Plimmer, Benjamin.	Streator.	Robinson, Charles.	Wenona.
Plocker, Henry.	Pana.	Robinson, J. A.	Riverton.
Pointer, Edward H.	Belleville.	Robinson, William A.	Toluca.
Poole, Edward A.	Lake Creek.	Rockey, Charles.	Peoria.
Powell, Edwin.	Caseyville.	Rodgers, Edward.	Murphysboro.
		Rogers, Geo. R.	Sunfield.

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Rodgers, Finnel	Murphysboro	Sprout, J. W.	Pontiac
Rode, Henry	Sherrard	Stanfel, Martin	Toluca
Rohe, Herman J.	Alexis	Stanford, J. W.	Pana
Robour, Michael	Grape Creek	Stanton, Wm. E.	Colchester
Rowland, Samuel J.	Divernon	Stedman, Edgar	Misslonfield
Rowland, Sidney G.	Belleville	Stedman, Robert, Sr.	Danville
Roy, A. L.	Collinsville	Steel, E. H.	Salem
Royster, Richard	Peoria	Steinheimer, Theodore	Lenzburg
Rude, Edmund	DeSota	Stephen, C. H.	Spring Valley
Russell, Zenas	Pana	Steward, L. A.	Mt. Vernon
Rutliff, Isaac	Asuland	Stewart, James C.	Carbon Hill
Ryan, Lawrence	Decatur	Stewart, Peter	Murphysboro
		Stoker, A. E.	Buffalo
		Stone, Frank	Lebanon
Sadler, George	Murphysboro	Stone, Nathan	Carterville
Sallade, George	Chatham	Storm, Edwin	Worden
Sallade, J. E.	do	Stout, F. M.	Springfield
Sands, Robert K.	Marissa	Stout, W. E.	Rutland
Sangrelet, Charles	Litchfield	Stowell, G. W.	Bloomington
Savage, Richard	Clarke City	Streik, Wm.	Belleville
Sawyers, Joseph	Coal City	Strait, John D.	Pinckneyville
Saylor, C. F.	Murphysboro	Strivey, Wm.	Taylorville
Schaffler, Fred	Belleville	Stroud, Wm.	Worden
Scheffler, Julius	Pekin	Struck, Carl	Springfield
Schramm, Charles	Belleville	Struse, Henry H.	Athens
Scharinck, Frank	Edwardsville	Stuthard, George B.	Westville
Schmack, Herman	Glen Carbon	Stuart, John	Ladd
Schroeder, Charles	Mt. Olive	Surber, Alexander H.	Danville
Schroeder, Henry	do	Swartz, Fred	Toluca
Schnessel, Conrad	Breese		
Schulte, Fritz	Clinton	Taylor, James	Edwarda
Schumacher, Chas.	Marissa	Taylor, Edwin	Trenton
Schumm, Fred W.	Gardner	Taylor, Mack	Westville
Schuster, John	Marissa	Taylor, Wm. W.	Tamoroa
Scott, J. W.	Colchester	Taylor, Simeon	Bissell
Currah, Castling R.	Braceville	Tefft, Ernest	Mt. Olive
Secor, Fred D.	Odin	Temple, James C.	Springfield
Seeman, John C.	Cantrall	Terry, W. F.	Litchfield
Seeman, George A.	do	Terry, George L.	Raymond
Seldel, Fred	Kinmundy	Thexton, Henry	Rushville
Seiler, William	Ormsby	Thomas, Fred	Rutland
Sells, Chas. B.	Colfax	Thomas, Charles	DeSota
Seymour, John	do	Thomasberry, Hiram A.	DuQuoin
Shafer, James M.	Girard	Thompson, Wm. H.	Himrod
Sharp, John H.	Spring Valley	Thompson, Fred	Westville
Sheehan, Peter	Athens	Thompson, J. H.	Marion
Shepardson, Isaac V.	Fairmount	Tibbals, E. A.	Marion
Shroyer, A. D.	Lincoln	Timmons, Irvin F.	Wyoming
Shinn, Charles	Springfield	Tobin, Robert	Springfield
Shriver, P. A.	Kinmundy	Travis, Alonzo	Pana
Siddall, Herbert	Belleville	Travis, Wm.	Birkner
Siddall, John	do	Tregoning, Chas.	Carterville
Siddall, Levi	do	Tregoning, Geo.	Carterville
Sinclair, Guy S.	Glen Carbon	Tumblenson, Sinclair	Centralla
Slivis, Thomas S.	Carbon Cliff	Turner, Geo. W.	Lewistown
Simpkins, Homer	Streator	Twomby, Edward	Coal Valley
Sizemore, Wm. I.	Carterville		
Slocum, Clarence	Gilchrist		
Smith, Chas. H.	Seneca		
Smith, Edward J.	Collinsville	Vallow, P. Oliver	Kinmundy
Smith, George W.	Virginia	Vaughn, John	McLean
Smith, George W.	St. Louis, Mo.	Valentine, Chas.	Cable
Smith, S.	Marselles	Vaughn, Wm. M.	Edwards
Smith, Robert	Collinsville	Vandveer, Perry E.	Taylorville
Smith, Flrth	Murphysboro	Vernon, James	LaSalle
Smithmeyer, Anton	Lincoln		
Smith, C. M.	Danville	Waggoner, Wm. F.	Raymond
Sneddon, John	O'Fallon	Wagmire, James	Assumption
Sneddon, Richard	Catlin	Waldrom, Thos.	Fredonia
Sneyd, James	Westville	Walker, John H.	Mt. Olive
Sowerby, Miles	Willisville	Walker, Joshua	Mt. Olive
Sparks, Emery C.	Ellisville	Wallace, Henry G.	East Peoria
Sparks, J. L.	Mt. Vernon	Waller, Wm. F.	Marion
Spauling, Chas.	Seatonville	Walters, Robert	Springfield
Spauling, Henry	Seatonville	Wallford, Noah	Hillsboro
Spiller, Elijah	Hallidayboro	Wallock, Chas.	Braceville
Spence, Elmer	Farmington		

Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Walsh, James D.....	Auburn.....	Williamson, Henry.....	Coal City.....
Walton, A. F.....	LaSalle.....	Williamson, Wm.....	Coal City.....
Walton, Hugh.....	Norris.....	Wills, Henry E.....	Harrisburg.....
Walton, Patrick.....	Bureau Junction.....	Wilson, David.....	Birkner.....
Walton, Joseph.....	St. David.....	Wilson, Wm. H.....	Middle Grove.....
Wantling, T. J.....	Pottstown.....	Wilson, James.....	Springfield.....
Wandless, W. S.....	Collinsville.....	Windsor, Samuel.....	Norris.....
Warner, Richard.....	Troy.....	Wines, E. H.....	Springfield.....
Wassel, Anton.....	Braceville.....	Wohlers, Henry.....	Mt. Olive.....
Watson, Frank.....	Springfield.....	Wood, Daniel A.....	Colfax.....
Wattawa, Joseph.....	Belleville.....	Woodward, J. R.....	Streator.....
Watts, T. J.....	Elmwood.....	Woolbright, D. A.....	Centralla.....
Weaver, Elmer.....	Dunfermline.....	Woodworth, Peter.....	Pekin.....
Webb, Albert M.....	Greenview.....	Worms, Joseph.....	Birkner.....
Welch, Benjamin.....	Harrisburg.....	Wornack, Chas. A.....	Glen Carbon.....
Wente, Frank.....	Nashville.....	Wright, Thos. C.....	Belleville.....
Wersen, W. L.....	Springfield.....	Wright, Wm. M.....	Pana.....
West, W. H.....	Murphysboro.....	Wrigley, James.....	Collinsville.....
West, Ollie.....	Herrin.....		
Wesuer, Ephraim.....	Streator.....	Yates, John.....	DeSoto.....
Westwood, Albert.....	Belleville.....	Yates, Wm.....	Coal City.....
Westwood, Edward.....	Birkner.....	Yebbing, Fred H.....	DuQuoin.....
Weymouth, John.....	Springfield.....	Young, J. K.....	Girard.....
Wheatley, John W.....	Coal City.....	Young, James G.....	Gardner.....
White, Henry.....	Riverton.....	Young, Robert.....	LaSalle.....
White, Perry J.....	Springfield.....	Young, A. O. K.....	Girard.....
White, Robert.....	Lincoln.....	Young, Peter J.....	Springfield.....
Wickerham, J. R.....	Lake Creek.....	Young, W. L.....	DuQuoin.....
Wilkin, W. P.....	Springfield.....	Youngquist, Frank.....	Sherrard.....
Williams, Andrew D.....	Sandoval.....		
Williams, Huston.....	Spaulding.....	Zeigler, John.....	Iles Junction.....
Williams, John.....	Spring Valley.....	Zink, Louis.....	Belleville.....
Williams, Thomas E.....	St. David.....	Zink, Peter A.....	do.....
Williams, Watson.....	Virden.....	Zuriker, Lorens.....	Cable.....
Williams, Wm. H.....	Sherrard.....		
Williams, Wm. Hampton..	Murphysboro.....		

HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Ackerman, Jacob.....	Belleville.....	Cook, W. D.....	Westville.....
Allen, William H.....	Collinsville.....	Cotton, George.....	Hallidayboro.....
Anthony, John C.....	Belleville.....	Cox, John.....	Ledford.....
		Craig, Daniel.....	Danville.....
Balwair, John.....	Braidwood.....	Crawson, William.....	O'Fallon.....
Banker, Henry.....	Ridge Prairie.....	Crinigan, Barney.....	LaSalle.....
Bath, Ameston.....	Cuba.....	Crocker, Edward.....	Marquette.....
Beedy, William.....	Springfield.....	Cruikshanks, Wm. A.....	Middle Grove.....
Bell, George E.....	Canton.....	Cummings, Robert H. L.....	Sparland.....
Benvenuto, Charles.....	Toluca.....	Daley, Thomas.....	Diamond.....
Birkley, N. T.....	Cuba.....	Dauck, John.....	LaSalle.....
Blue, Jesse.....	Norris.....	Davenport, Thomas.....	New Castle.....
Bonick, Andrew.....	Gilechrist.....	Davis, George W.....	Harna City.....
Bowman, George W.....	Yates City.....	Davis, Thomas.....	Swanwick.....
Brown, G. A.....	Iles Junction.....	Davis, William H.....	Streator.....
Brubeck, J. W.....	Pawnee.....	Davison, J. G.....	St. John.....
Brumann, Albert.....	Springfield.....	Dawson, John.....	Streator.....
		Dawson, Thomas.....	do.....
		Dawson, V. C.....	Spring Valley.....
Campbell, Albert.....	Pottstown.....	DeBacher, Thomas.....	Elmwood.....
Campbell, James.....	Coal City.....	DeHass, B. L.....	Tallula.....
Carlson, Alexander.....	Galva.....	Dietrich, Philip.....	Freeburg.....
Carrington, Eugene.....	Moweaqua.....	Dillon, John.....	Auburn.....
Carter, Albert J.....	Pinckneyville.....	Doe, R. P.....	Glen Carbon.....
Chitwood, William.....	Glenburn.....	Dodd, Samuel.....	Pottstown.....
Clark, Charles M.....	DuQuoin.....		
Cline, John.....	LaSalle.....	Ebel, August.....	Belleville.....
Collins, John.....	Birkner.....	Edwards, George W.....	Springfield.....

Certificates of Service—Continued.

Name.	Postoffice.	Name.	Postoffice.
Egerton, J. O.	Colchester.....	Matthews, William G.	Bartonville.....
Ekla, Daniel B.	Springfield.....	Maurer, Edward.....	Spring Valley.....
Essex, George M.	Soperville.....	Maxwell, Fred.....	Peoria.....
Evans, Albert.....	Glen Carbon.....	McCalster, Thomas.....	Muddy Valley.....
Everett, Charles.....	Rutland.....	McDonald, William H.	Pana.....
Fischer, George.....	Staunton.....	McLean, John.....	Pleasant Plains..
Fisher, Patrick.....	Kaugley.....	McMillen, W. M.	Danville.....
		McWerthy, G. A.	Smithboro.....
Gaudy, James W.	Peoria.....	Melvin, T. M.	Tamaroa.....
Glasford, Oliver.....	Orchard Mines..	Milem, John.....	Spring Valley.....
Glenam, Philip.....	Williamsville....	Miller, Wm.....	Streator.....
Graham, J. A.	Nilwood.....	Morrison, Archie.....	Oglesby.....
Graham, Reuben.....	Virdeu.....	Mumford, E. A.	Kewanee.....
Grattendick, Fred.....	Okawville.....	Murray, James H.	Galva.....
Greaves, Allen.....	Nashville.....		
Grey, David F.	Springfield.....	Neal, Ambrose.....	Barclay.....
Grierson, John.....	Streator.....	Neil, John H.	Bunker Hill.....
Grimshaw, Joseph.....	LaSalle.....	Neilson, J.	Sparta.....
Groom, John.....	Belleville.....	Nicholson, George A.	Cuba.....
		Noid, John E.	Galva.....
Haas, Jacob.....	Millstadt.....		
Hackett, Owen.....	Spannding.....	Ogden, David.....	Rentchler.....
Hagler, Charles.....	Fredonia.....	Ogden, Samuel.....	Mascoutah.....
Hall, George R.	Nilwood.....	Olson, Aug.....	Kangley.....
Hanson, William.....	O'Fallon.....	Osborne, Benjamin.....	Streator.....
Harms, Heike.....	Petersburg.....	Ottinger, William.....	Catlin.....
Harris, J. T.	Tamaroa.....		
Heaver, F.	Sandoval.....	Pankey, John M.	Equality.....
Hickox, Lee.....	Springfield.....	Peet, Charles.....	Marseilles.....
Howe, Charles.....	Streator.....	Pendergast, James.....	Soperville.....
		Phillips, William.....	Hallidayboro.....
Ichman, Frank.....	Spring Valley....	Pieton, Joseph.....	Farmington.....
Isadore, Charles.....	Sparta.....	Pieton, Thomas H.	do.....
Isadore, George.....	do.....	Piper, Oliver.....	Worden.....
		Prichard, H. C.	Lewis-town.....
Jackson, William.....	Minonk.....	Prichett, T. M.	Niantic.....
Jacobs, John P.	Orchard Mines..		
Jacobs, William.....	Murphysboro.....	Qualls, Nevel.....	Dubois.....
Jamison, John.....	Petersburg.....	Quick, A. T.	Sato.....
Jeffrey, William.....	Gilchrist.....		
Johnson, Edgar W.	Marissa.....	Raber, Louis.....	Caseyville.....
Jones, George W.	Riverton.....	Radford, James W.	Cuba.....
Jones, T. A.	Muncie.....	Radford, W. T.	Bloomington.....
Judd, Thomas.....	Cuba.....	Rahaur, Michael.....	Pawnee.....
		Redyard, John.....	Odin.....
Kearney, E.	Hallidayboro.....	Reise, William M.	Roanoke.....
Kelley, Martin.....	Toluca.....	Reid, A. B. Jr.....	DuQuoin.....
Kemper, Christian.....	Belleville.....	Rennard, James E.	Westville.....
Kennedy, W. J.	Edwardsville.....	Reum, Charles H.	Sorento.....
King, Alexander, Jr.....	Cartersville.....	Rice, B. F.	Harrisburg.....
King, John.....	do.....	Richmond, Edward B.	Winchester.....
Kirby, Thos., Jr.....	Peru.....	Rieger, John C.	Pinckneyville.....
Kiang, John.....	Galva.....	Riley, Michael.....	Westville.....
Klaus, Louis.....	Belleville.....	Roach, Samuel.....	Tamaroa.....
		Rogers, George.....	Sunfield.....
Langran, James.....	Fairbury.....	Rogers, Henry.....	Braidwood.....
Larson, Charles L.	Galva.....	Rude, Edmond.....	DeSoto.....
Lathan, William H.	Hallidayboro.....		
Lewes, Jacob H.	Pottstown.....	Sallade, George A.	Chatham.....
Lewis, William.....	Wanlock.....	Sanson, T. J.	Cartersville.....
Lippert, Adolph.....	Kewanee.....	Sawyers, Joseph.....	Coal City.....
Lloyd, Benjamin.....	Rentchler.....	Schmacher, Charles.....	Marissa.....
Love, William.....	Virdeu.....	Schramm, Charles.....	Belleville.....
Lundberg, Eric.....	Galva.....	Seebach, Joseph.....	Spring Valley....
		Sexton, LaFayette.....	Dawson.....
Marshall, Robert.....	Yates City.....	Seymour, A. J.	Fredonia.....
Matthews, George.....	DuQuoin.....	Shepard, W. C.	Marquette.....
Mattern, Daniel.....	Spring Valley.....	Shurm, Fred.....	Gardner.....
Matthews, C.	Marion.....	Smith, Geo. W.	Virginia.....
		Sorrells, D. H.	Ashland.....
		Sowarby, Miles.....	Willisville.....

Hoisting Engineers Holding Certificates of Service—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Stoker, Edward.....	Bartonville.....	Waymire, James.....	Assumption.....
Strick, William.....	Belleville.....	Wertwood, Edward.....	Birkner.....
Stroud, William.....	Worden.....	Wheatley, Rolley.....	DuQuoin.....
Struck, Carl.....	Springfield.....	White, Henry.....	Riverton.....
Stuart, John.....	Oglesby.....	Williams, Husten.....	Spaulding.....
		Williams, Stephen P.....	Wyoming.....
Tanner, Henry.....	Pinckneyville....	Williams, Watson.....	Barclay.....
Taylor, Benjamin.....	Bartonville.....	Willis, Harry.....	New Castle.....
Taylor, Willard W.....	Tamaroa.....	Wood, Daniel A.....	Colfax.....
Tefft, Ernst.....	Girard.....	Woolbright, D. A.....	Centralia.....
Telfer, John K.....	Morris.....	Wonnes, Joseph.....	Birkner.....
Thome, Martin.....	Martinville.....	Wormack, Charles A.....	Glen Carbon.....
Wallace, Harry G.....	East Peoria.....	Zeigler, John.....	Iles Junction....
Warner, Andrew M.....	Wenona.....		

MINE EXAMINERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—The revised mining law of 1899 changed the title or name "Fire Boss" to that of "Mine Examiner," and provided that those holding certificates as Fire Boss could exchange the same for that of Mine Examiner.

The names followed by the abbreviation "ex." have made such exchange.

Name.	Postoffice.	Name.	Postoffice.
Adams, William M	Centralla	Campbell, Robert.....	Witt
Adrien, Charles H	Hanna City	Campbell, James	Assumption
Alexander, John	Cable	Cannon, John	Marquette
Amberger, Joseph	Chatham	Cappin, Aaron	Wenona
Andree, John W	Greenview	Carlson, Andrew	Colfax
Anderson, James	Marion	Carr, J. W	Odin
Andrew, Thomas	Oglesby	Carroll, Anthony W	Gillespie
Andrew, Thomas	Kangley	Carter, James	LaSalle
Archibald, George	Green Ridge	Carter, Samuel	Braceville
Armstrong, George	Riverton	Case, William	Diamond
Argyle, Joseph	Coal City	Casey, James	Selbytown
Arnold, Stephen	Oglesby	Casey, John	Williamsville
Atkinson, John G	Cable	Castillo, Henry	Pana
Avery, William	Belleville	Chadderton, John	Lenz Station
		Champley, James	Wenona
Back, Robert	Farmington	Clark, Joseph B	Hornsby
Baker, Sherrad	Gillespie	Craime, J. E., Jr.	Murphysboro
Baker, Robert	Auburn	Cunningham, David	Carlinville
Baker Samuel G	do	Champley, James, ex	Wenona
Barkley, George	Greenview	Condon, Charles H	Hanna City
Barlow, Harry	Lake Creek	Connolly, Terrance J	Assumption
Baugh, William	Dawson	Cook, William	DuQuoin
Beecham, William	Cardiff	Cook, Elijah	Wanlock
Beekman, Theodore	Glen Carbon	Cook, Thomas	Belleville
Bell, William	Streator	Cooper, Moses	Athens
Bettison, William	Canton	Costello, Henry, ex	Pana
Biehl, Charles	Belleville	Cowley, William	DuQuoin
Blair, Herbert M	Centralla	Crichton, Lawson	Taylorville
Bluefield, Charles	Coal City	Connaughton, Edward	Belleville
Blakemore, George	Streator	Cox, Will M	Edwardsville
Blenkinsopp, Thomas, Jr.	Cable		
Blue, J. W	Grape Creek	Dacy, William	Springfield
Booth, Enoch	Springfield	Dallas, Charles	Oden
Burg, Frank	Mt. Olive	Dalzell, Andrew	Lanton
Bowen, Gwilym	Herrin	Damrath, Frederick	Virden
Boyer, John	Fairmount	Daniel, John	Belleville
Brennan, Patrick	Toluca	David, Emmer E	Astoria
Brennan, John E	Virden	Davis, George	Springfield
Brewer, Emery A	Mt. Pulaski	Davies, Thomas	Nilwood
Brown, Mathew	Springfield	Davis, William	Streator
Brown, Archibald	Streator	Davis, William H	do
Brooks, Peter	Taylorville	Davis, Jackson	Athens
Brynn, William	Virden	Davis, William	Streator
Bullough, James	Girard	Davis, John	Taylorville
Bundy, John	Streator	Davison, William D	Sandoval
Bumgartner, Andrew J	Barelay	Day, Louis B	Taylorville
Burnett, Thomas	Hallidayboro	Dawkins, William E	Rentchler
Burns, James, Sr	Springfield	Dodge, H. N	East Peoria

Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Doonier, P. J.	Westville.	Hughes, John	Decatur
Dowell, William C.	Centralia	Hutchinson, Ralph	Barclay.
Edmunds, Morgan	Mt. Olive.	James, Jonah	Grape Creek
English, Thomas	Streator	Jasper, John	DuQuoin
Evans, Edward J.	Pekin	Jenkins, Richard	LaSalle.
Farmer, James	Marissa	Jenkins, T. C.	Murphysboro
Farrand, Walter	Barclay	Jennings, Wm	Athens
Farrell, John H.	Springfield	Jeten, T. F.	Roanoke
Fickart, Henry	Staunton	Johnson, David	Oglesby
Fiellingham, John E.	Peoria	Johnston, Samuel	do
Felton, Harry	Petersburg	Johnson, James N.	Cartersville
Ford, John	Tilden	Jones, Ben J., ex	Coffeen
Fox, John	Elmwood	Jones, Thomas	Lebanon
		Jones, John	Springfield
		Jones, Willis	Herrin
		Jones, Benj. J.	Coffeen
		Jones, Morgan	Litchfield
		Jones, Robt. R.	Oglesby
		Jones, Wm. Hy	Catlin
		Jordon, Robert	Streator
Galbraith, Patrick	Coal City	Kaney, John	Centralia
Galvin, Martin	Assumption	Kaveny, John R.	Troy
Galligan, Michael	Herrin	Kenney, Wm.	Sparland
Gastenecker, Wm	Troy	Kepper, Wm	Peru
Gebaur, Joseph	Glen Carbon	Killingworth, Chas. H.	Pinekenyville
Ghebandy, Honore	Westville	Kloever, Matthew	Pana
Glover, Richard	Belleville	Knapp, Charles	Seatonville
Gloss, Michael	Gardner	Knies, Harry	Breese
Goehle, William	Staunton	Koehler, Charles	Lincoln
Grabruck, Emile	Gardner	Kohers, Adam	Breese
Graham, L. A.	Bloomington	Kolkmann, Gustav	Marissa
Gray, Alexander	Gillespie	Kortkamp, Karl	Hillsboro
Gray, Henry	Athens	Kortkamp, Louis	do
Gray, William	Streator	Kramer, Frederick	Centralia
Green, Wm. H.	Belleville	Kreppert, William	Springfield
Green, J. W.	Springfield		
Greenan, John	Coal City	Lamar, Frank	Worden
Gregor, Charles	Springfield	Lamb, George	Springfield
Griffin, John B.	Niantic	Lasley, Wm	Hallidayboro
Griffith, Peter	Paisley	Lawson, John	Cable
Griffiths, Evan	St. David	Lawson, Thomas	Lake Creek
Griffith, David	Centralia	Lettson, Wm	Seneca
Groom, Isaac	Belleville	Linton, Quincy M	Gillespie
Guy, John	Streator	Lehwald, Herman	Springfield
		Lloyd, Rowland R	Barclay
Haddow, Thomas	Pana	Longshore, Harry A	DuQuoin
Hardman, J. J.	Auburn	Lockhart, James M.	Sunnfield
Harrison, James	Athens	Lordon, Michael	Centralia
Harrison, John	Odin	Lumaghi, Louis F	Collinsville
Hann, George	Litchfield	Lyons, Mark	Lincoln
Hamilton, David	Assumption		
Hampton, Harry	O'Fallon	Manees, Charles	Centralia
Haisfield, Aaron	Oglesby	Mann, Jacob	Mascoutah
Hart, Chas J.	Virdeu	Martin, Samuel	Glen Carbon
Harron, Walter	Sorento	Martin, William	LaSalle
Hawkins, Sidney	Belleville	Mags, Jacob	Danville
Hayden, G. S.	Wenona	Massie, Alfred N	Belleville
Hayes, Webster	Glen Carbon	Massie, J. G.	do
Hauson, Charles	Danville	Matthews, John E.	Riverton
Hardin, Hiram H.	Divernon	Mayne, Thomas	Glen Carbon
Harvey, Frank	Springfield	Meyer Louis	Breese
Haskins, Joseph	Catlin	Millett, Thomas	Troy
Haywood, Joseph	Centralia	Mitchell, Elijah R	Farmington
Hemmersbach, Peter	Farmington	Mitchinson, John	Hanna City
Henley, J. H.	Odin	Middleton, J. L.	Salem
Henderson, Alexander	Springfield	Miller, Alexander	Ridge Prairie
Herbert, Albert W.	Athens	Miller, John K	Staunton
Hines, William	Rutland	Miller, G. W.	Pawnee
Hodder, Jacob	Norris	Monghan T. P.	Springfield
Hooper, Geo.	Winchester		
Houston, Robt. J.	Lebanon		
Holden, Andrew	Coal City		
Hopkins, Reese	Litchfield		
Howells, George	Staunton		
Hoye, William	Braidwood		

Mine Examiners, Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Monson, Charles.....	Springfield.....	Rehg, Charles.....	Belleville.....
Moran, Thomas.....	Assumption.....	Rennison, Henry.....	St. Johns.....
Morgan, Daniel S.....	Springfield.....	Reynolds, John.....	Streator.....
Mornklo, Peter.....	Glen Carbon.....	Reynolds, Andrew.....	Danville.....
Mountjoy, John H.....	Clark City.....	Reynolds, David.....	Muncie.....
Morris, James P.....	Centralla.....	Rhodes, D. R.....	Pana.....
Morgan, E. T.....	Georgetown.....	Rhodes, J. L.....	Westville.....
Morgan, Joseph.....	Streator.....	Ritson, Hugh.....	Farmington.....
Morris, John H.....	Wenona.....	Rider, James H.....	Pontiac.....
Moss, Thomas.....	Staunton.....	Richard, James.....	Belleville.....
Muentrich, J.....	do.....	Roberts, Evan.....	Danville.....
Munster, James.....	Muncie.....	Robinson, Thomas J.....	Greenville.....
Muir, Andrew.....	Springfield.....	Robbins, Aaron.....	Mt. Pulaski.....
Murphy, John.....	Braidwood.....	Rolls, James.....	Pana.....
McCall, Maurice R.....	Odin.....	Rowlands, Ivor.....	Virdeu.....
McCranor, James.....	Girard.....		
McCrindle, David.....	Oglesby.....	Savage, Mike.....	Lincoln.....
McDonald, Wm.....	Braidwood.....	Scattergood, John.....	Barclay.....
McDill, James.....	Assumption.....	Schmidt, Conrad.....	Lincoln.....
McEwen, Charles.....	Carbon Hill.....	Schayer, Moses.....	Springfield.....
McKillop, Donald.....	do.....	Scott, Wm. J.....	do.....
McKarity, John.....	Springfield.....	Scoby, Ray.....	Gilechrist.....
McKenzie, Alex. C.....	Canton.....	Sebastain, Charles.....	Freeburg.....
McKinzie, Hugh.....	Springfield.....	Seidl, Frank J.....	Sandoval.....
McLaughlin, John P.....	Auburn.....	Secor, T. D.....	Odin.....
McBride, George.....	Mascoutah.....	Shaw, Henry.....	Spring Valley.....
McCall, John.....	Springfield.....	Siddall, Edward.....	Streator.....
McLaughlin, Wm.....	DuQuoin.....	Siddall, John W.....	do.....
McLean, Wm. F.....	Hes Junction.....	Siddall, James.....	do.....
		Smith, Geo. A.....	Sandoval.....
Nation, Henry C.....	Glen Carbon.....	Smith, Henry.....	Smithton.....
Neal, Edward O.....	Wolcott.....	Smith, William H.....	Taylorville.....
Nelmes, William.....	St. David.....	Smith, John P.....	Glen Carbon.....
Nesbit, Charles L.....	Freeburg.....	Smith, James.....	Streator.....
Neylon, Dennis.....	Selbytown.....	Smith, Benjamin.....	Canton.....
Nichols, Eli W.....	Dunfermline.....	Smith, Harry.....	Troy.....
Nixon, Robert.....	Streator.....	Smith, John H.....	Herrin.....
Nordner, C. K.....	Athens.....	Smith, William.....	Belleville.....
Noll, Charles.....	Springfield.....	Sneddon, Michael.....	Chatham.....
Noll, Peter.....	Belleville.....	Sollis, John.....	Centralla.....
Nordman, Ferdinand.....	Breese.....	Spies, Alfred.....	Braceville.....
		Steel, Daniel.....	Collinsville.....
O'Connor, Patrick F.....	Paisley.....	Steel, Neal.....	Centralla.....
O'royd, Peter W.....	Springfield.....	Stearns, James.....	Hallidayboro.....
Opp, Sherman W.....	Canton.....	Stonburner, L. L.....	Sorento.....
Owens, Evan.....	Auburn.....	Slow, Michael.....	Braceville.....
		Steiber, Anton.....	Glen Carbon.....
Parker, Joseph.....	Carbon Hill.....	Steines, Benjamin.....	Willisville.....
Payne, Henry.....	Litchfield.....	Stevens, Walter.....	Streator.....
Payne, Emanuel.....	do.....	Stevens, John.....	Cuba.....
Peart, John.....	Braidwood.....	Stewart, John T.....	Coulterville.....
Phelps, George.....	Herrin.....	Stirrat, James.....	Canton.....
Phillips, Benjamin.....	Kangley.....	Taake, Henry H.....	Central City.....
Pick, Edward.....	Central City.....	Thaine, James.....	Litchfield.....
Pickton, John W.....	Farmington.....	Thom, John.....	Coal City.....
Pierard, Edward.....	Coal City.....	Thomas, John R.....	Spring Valley.....
Pinson, Samuel.....	Coffeen.....	Thorunt, Joseph, Sr.....	Trenton.....
Preval, Fred.....	Springfield.....	Thursh, David Z.....	Hanna City.....
Poole, Robert H.....	Edinburg.....	Thursh, David S.....	do.....
Potter, Edward.....	Belleville.....	Thomas, David.....	Canton.....
Price, John B.....	Marissa.....	Titler, William L.....	O'Fallon.....
Prince, Thomas.....	Mt. Olive.....	Tompkins, Frank.....	St. David.....
Prudent, Edward.....	Centralla.....		
		Valew, Edward.....	Glen Carbon.....
Quinn, Bernard.....	Bloomington.....	Vallow, Ellis.....	Kinmundy.....
		Vit, Charles.....	Litchfield.....
Raab, Rudolph.....	Carlinville.....		
Race, George.....	Springfield.....	Ward, John G.....	Streator.....
Rackley, Emory.....	Pinckneville.....	Ward, Robert, ex.....	do.....
Rae, Robert.....	Carbon Hill.....	Watson, Thomas.....	Central City.....
Rankin, Thomas A.....	Westville.....	Wendler, Adelbert.....	Glen Carbon.....
Ready, Thos.....	Springfield.....	Whalen, Michael.....	Greenridge.....

Mine Examiners, Certificates of Competency—Concluded.

Name.	Postoffice.	Name.	Postoffice.
Whitecamper, Louis.....	Lincoln.....	Williams, William E.....	Streator
Whitehead, Edward.....	Farmington.....	Wilson, Henry.....	Pana.....
Wilkinson, George E.....	Bissell.....	Winterbottom, John.....	Sparta.....
Wetherill, James.....	Ladd.....	Wood, William.....	Streator.....
Willard, Charles S.....	Glen Carbon.....	Worthington, Hillard.....	Hallidayboro.....
Williams, T. J.....	Cardiff.....	Wright, David.....	Carlinville.....
Williams, Anthony.....	Centralla.....	Wright, William C.....	Centralla.....
Williams, William H.....	Edinburg.....		
Williamson, Jacob H.....	Bissell.....	Yemm, William.....	Gillespie.....
Williamson, Jacob.....	do.....		
Wilson, Henry, ex.....	Pana.....		

MINE EXAMINERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Arnold, Stephen.....	Kangley.....	Kopps, August.....	Girard.....
		Kortcamp, Carl.....	Hillsboro.....
		Kortcamp, Lewis.....	do.....
Bagshaw, George W.....	Virden.....		
Blakeman, George.....	Streator.....	Lewis, Edward.....	Ladd.....
Borg, Frank.....	Mt. Olive.....		
Boulton, Henry.....	Coal City.....	Moffett, Edward A.....	Bartonville.....
Bough, William.....	Dawson.....	Montgomery, John H.....	Gardner.....
Brooks, Peter.....	Taylorville.....	Mooney, Arthur.....	Kangley.....
Brown, John.....	Streator.....	McDonald, M. E.....	LaSalle.....
Caveny, Edward.....	Pana.....		
Davis, Thomas.....	Nilwood.....	Ross, S. H.....	Girard.....
Franzen, Mat.....	Girard.....	Schmidt, Ernest.....	Mt. Olive.....
		Schultz, John.....	Diamond.....
		Shaw, Francis M.....	Hallidayboro.....
Gray, William.....	Streator.....	Shopman, John.....	Mt. Olive.....
Griffin, John.....	Niantic.....	Siebenhawer, Wm.....	LaSalle.....
		Sloufskie, Hermann.....	Decatur.....
		Stewart, Samuel.....	Coal City.....
Hall, John Herbert.....	Minonk.....		
Hoesfield, Aaron.....	Oglesby.....	Taylor, Samuel.....	O'Fallon.....
Hornanor, Paul.....	Lincoln.....	Thomas, David.....	Canton.....
Hughes, John.....	Decatur.....		
Humphreys, William.....	Clarke City.....	Ward, Robert.....	Streator.....
		Wilson, Archle.....	Clarke City.....
Jenkins, Rutland.....	LaSalle.....	Wilson, John.....	Gardner.....
		Wood, Henry.....	Streator.....
Kneper, David.....	Girard.....		

AGREEMENT

BETWEEN THE

Illinois Coal Operators' Association and the United Mine Workers of Illinois

For the Scale Year Beginning April 1, 1903.

WHEREAS, A contract between the operators of the competitive coal fields of Pennsylvania, Ohio, Indiana and Illinois, and the United Mine Workers of America has been entered into at the city of Indianapolis, Indiana, Feb. 7, 1903, fixing a scale of mining prices, day wages and conditions, for certain base points therein set forth, to continue in force and effect for one year.

WHEREAS, This contract fixes the pick-mining price of bituminous mine-run coal at Danville, at 55 cents per ton of 2,000 pounds; therefore, be it

Resolved. That the prices for pick-mine coal throughout the State for one year, beginning April 1, 1903, shall be as follows:

FIRST DISTRICT.

Streator, Cardiff, Clarke City and associated mines, including Toluca thick vein 64c
(Note: The matter of the clay parting at Streator to be referred to sub-district convention for adjustment.)

Third vein and associated mines, including third vein at Streator, including 24 inches of brushing..... 82c

Wilmington and associated mines, including Cardiff long wall and Bloomington thin vein, including brushing 87c

Bloomington thick vein..... 77c

Pontiac, including 24 inches of brushing..... 64c

Pontiac top vein..... 64c

Marselles and Seneca (referred to a joint committee of two miners and two operators for investigation and adjustment of the mining prices and conditions, and their agreement shall become a part of this contract. Said committee to make its investigation and report prior to April 1, 1903.)

Morris long wall, Wilmington conditions..... \$1 06

Morris room and pillar..... 1 21

Clarke City lower seam, brushing in coal.....

SECOND DISTRICT.

Danville, Westville, Grape Creek and associated mines in Vermilion county 55c

THIRD DISTRICT.

Springfield and associated mines..... 55.7c

Lincoln and Nlantic..... 59c

Colfax..... 59c

FOURTH DISTRICT.

Mines on C. & A. south of Springfield to and including Carlinville; including Taylorville, Pana, Litchfield, Hillsboro, Witt (Paisley), Divernon and Pawnee..... 55c

Assumption long wall, under present regulations 71½c

Moweaqua room and pillar..... 59c

Mount Pulaski room and pillar (referred for local settlement).....

Decatur, present conditions..... 70c

FIFTH DISTRICT.

Glen Carbon, Belleville and associated mines, to and including Pinckneyville, Willisville and Nashville..... 55c

Coal five feet and under..... 60c

SIXTH DISTRICT.

DuQuoin, Odin, Sandoval, Centralia and associated mines..... 51c

Salem and Kinmundy..... 56c

SEVENTH DISTRICT.

Mount Vernon..... 56c

Jackson county..... 51c

(All coal five feet and under 5 cents extra per ton; this not to apply to lower bench, nor rolls or horsebacks.)

Lower bench, Jackson county for shipping mines, miners to carry 14 inches brushing	64c
Saline county.....	51c
Williamson county.....	48c

EIGHTH DISTRICT.

Fulton and Peoria counties, thin or lower vein (third vein conditions)...	82c
Fulton and Peoria counties, No. 5 vein.	62c
Astoria, No. 5 vein (Fulton and Peoria counties conditions).....	62c
Fulton and Peoria counties, No. 6 vein (with Kewanee and Etherley conditions, under cutting and weighing the coal; and if they cannot obtain members of the U. M. W. of A. to mine the coal under these terms and conditions it shall be the privilege of the operators to call for a meeting of the joint executive boards of the miners and operators, and said joint executive boards shall fix a rate for shooting coal in that seam).....	71c
Gilchrist, Wanlock, Cable, Sherrard and Silvis mines, 66 cents per ton, with last year's conditions. In case of deficient work, where miner and mine manager cannot agree as to compensation, the mine committee shall be called in, and, if they cannot agree, the dispute shall be carried up under the 13th clause of the present scale.	
Kewanee, Etherley and Wyoming....	71c
Pottstown, No. 1 seam, scale to be the same as Gilchrist and Wanlock, except in the brushing of the top; that shall be settled by the Sub-District.	
Colchester (referred for local settlement).	

NINTH DISTRICT.

Mount Olive, Staunton, Gillespie, Clyde, Sorento and Coffeen, and mines on the Vandalia line as far east as and including Smithboro, and on the B. & O. S.-W. as far east as Breese.....	55c
Coal five feet and under.....	60c

First. The Indianapolis Convention having adopted a mining and underground day labor scale, in effect April 1, 1903, no changes or conditions shall be imposed in the Illinois scale for the coming year that increase the cost of production of coal in any district in the State, except as may be provided.

Second. No scale of wages shall be made by the United Mine Workers for mine manager, mine manager's assistant, top foreman, company weighman, boss, drivers, night boss, head machinist, head boiler-maker, head carpenter, night watchman, hoisting engineers. It being understood that "assistant" shall apply to such as are authorized to act in that capacity only. The authority to hire and discharge shall be vested in the mine manager, top foreman and boss driver. It is further understood and agreed that the night watchman shall be exempt when employed in that capacity only.

Third. Any operator paying the scale rate of mining and day labor under this agreement shall at all times be at liberty to load any railroad cars whatever, regardless

of their ownership, with coal, and sell and deliver such coal in any market and to any person, firm or corporation that he may desire.

Fourth. The scale of prices for mining per ton of 2,000 pounds, run of mine coal herein provided for, is understood in every case to be for coal practically free from slate, bone and other impurities, loaded in cars at the face, weighed before screening; and that the practice of pushing coal by the miners shall be prohibited.

Fifth. (a) Whether the coal is shot after being undercut or sheared by pick or machine, or shot without undercutting or shearing, the miners must drill and blast the coal in accordance with the State mining law of Illinois, in order to protect the roof and timbers and in the interest of general safety. Any miner who persistently violates the letter or spirit of this clause shall be discharged.

(b) The system of paying for coal before screening was intended to obviate the many contentions incident to the use of screens, and was not intended to encourage unworkmanlike methods of mining and blasting coal, or to decrease the proportion of screened lump, and the operators are hereby guaranteed the hearty support and co-operation of the United Mine Workers of America in disciplining any miner who from ignorance or carelessness, or other cause, fails to properly mine, shoot and load his coal.

Sixth. In case slate, bone, clay, sulphur or other impurities are sent up with the coal by the miner, it shall be the duty of whomever the company shall designate as inspector to report the same, with the estimated weight thereof, and the miner, or miners, so offending shall have such weight deducted from the established weight of the car, and for the first offense in any given month shall be fined 50 cents; for the second offense in the same month he or they shall, at the option of the operator, be fined \$2.00 or suspended for two working days; and for the third, or any subsequent offense, in the same month, or in malicious or aggravated cases for the first, or any subsequent offense, the operator may indefinitely suspend or discharge.

The company weighman shall post in a conspicuous place at the pit-head the names of all miners dealt with hereunder.

The inspector designated by the operator shall be a member of the U. M. W. of A., but in the discharge of the duties herein specified shall not be union or president or pit committee, subject to the jurisdiction of the local and against any miner or committeeman seeking in any way to embarrass the inspector in or because of the discharge of such duties the provisions of the miner's state constitution shall be invoked, and in addition he shall at the option of the operator be suspended for two working days.

In case it shall be alleged by either the local representatives of the miners, or by the operator, that the inspector is not properly performing his duties hereunder, it shall be so reported to the miner's sub-district president, who shall, within 48 hours after the receipt of notification, take it up with the superintendent of the company for adjudication; and, if it shall be found that the inspector is not faithfully performing such duties, he shall be discharged or transferred to other duties, as the operator may elect.

The proceeds of all fines hereunder shall be paid to the Miners' Sub-District Secretary-Treasurer, and under no circumstances shall any such fines be remitted or refunded.

Seventh. The miners of the State of Illinois are to be paid twice a month, the dates of pay to be determined locally, but in no event shall more than one-half month's pay be retained by the operator. When any number of men at any mine so demand, statements will be issued to all employes not less than 24 hours prior to pay day. The miners and operators shall decide locally as to the form and manner in which statements shall be issued. No commission will be charged for money advanced between pay days, but any advances between pay days shall be at the option of the operator.

Eighth. The price for powder per keg shall be \$1.75. The miners agree to purchase their powder from the operators, provided it is furnished of standard grade and quality; that to be determined by the operators and expert miners jointly, where there is a difference.

Ninth. The price for blacksmithing for pick mining shall be six-tenths of a cent per ton for room and pillar work and 12½ cents per day per man, or 25 cents per month for long wall for pick and drill sharpening.

Tenth. It is understood that there is no agreement as to the price of oil.

Eleventh. The inside day wage scale authorized by the Indianapolis agreement of Feb. 7, 1903, viz.:

Tracklayers.....	\$2 56
Tracklayers' helpers.....	2 36
Trappers.....	1 13
Bottom cagers.....	2 56
Drivers.....	2 56
Trip riders.....	2 56
Water Haulers and Machine Haulers..	2 56
Timbermen, where such are employed,	2 56
Pipemen for compressed air plants....	2 50
Company men in long wall mines of	
Third Vein District Northern Illinois	2 36
All other inside labor.....	2 36

Shall be the scale under this agreement; *Provided*, That the 12½ per cent advance shall apply on all classes of underground day labor not specified above whose rates have been fixed locally.

Twelfth. The above scale of mining prices is based upon an eight hour work day, and it is definitely understood that this shall mean eight hours work at the face, exclusive of noon time, six days a week, or 48 hours in the week, provided the operator desires the mine to work, and no local ruling shall in any way affect this agreement, or impose conditions affecting the same.

Any class of day labor may be paid, at the option of the operator, for the number of hours and fractions thereof actually worked, at an hour rate based on one-eighth of the scale rate per day; *Provided, however*, That when the men go into the mine in the morning they shall be entitled to two hours' pay whether the mine hoists coal two hours or not, except in the event that they voluntarily leave their work during this time without the consent of the operator, they shall forfeit such two hours' pay; *Provided, further*, That overtime by day laborers, when necessary to supply railroad chutes with coal by night or Sunday where no regular men therefor are exclusively employed, or when necessary in order not to impede the operation of the mine the day following, and

for work which cannot be performed or completed by the regular shift during regular hours without impeding the operation of the mine, may be performed and paid for at the same rate per hour.

Thirteenth. (a) The duties of the pit committee shall be confined to the adjustment of disputes between the pit boss and any of the members of the United Mine Workers of America, working in and around the mine, for whom a scale is made, arising out of this agreement, or any sub-district agreement made in connection herewith, where the pit boss and said miner, or mine laborers, have failed to agree.

(b) In case of any local trouble arising at any shaft through such failure to agree between the pit boss and any miner or mine laborer, the pit committee and the miners' local president and the pit boss are empowered to adjust it; and, in the case of their disagreement it shall be referred to the superintendent of the company and the president of the miners' local executive board, where such exists; and should they fail to adjust it—and in all other cases—it shall be referred to the superintendent of the company and the miners' president of the sub-district; and, should they fail to adjust it, it shall be referred in writing to the officials of the company concerned and the State officials of the U. M. W. of A., for adjustment; and in all such cases, the miners and mine laborers and parties involved must continue at work pending an investigation and adjustment, until a final decision is reached in the manner above set forth.

(c) If any day men refuse to continue at work because of a grievance which has, or has not been taken up for adjustment in the manner provided herein, and such action shall seem likely to impede the operation of the mine, the pit committee shall immediately furnish a man or men to take such vacant place, or places, at the scale rate, in order that the mine may continue at work; and it shall be the duty of any member, or members, of the United Mine Workers, who may be called upon by the pit boss, or pit committee, to immediately take the place or places assigned to him or them in pursuance hereof.

(d) The pit committee, in the discharge of its duties, shall under no circumstances go around the mine for any cause whatever, unless called upon by the pit boss or by a miner or company man who may have a grievance that he can not settle with the boss; and, as its duties are confined to the adjustment of any such grievances, it is understood that its members shall not draw any compensation except while actively engaged in the discharge of said duties. Any pit committeeman who shall attempt to execute any local rule or proceeding in conflict with any provision of this contract, or any other made in pursuance hereof, shall be forthwith deposed as committeeman. The foregoing shall not be construed to prohibit the pit committee from looking after the matter of membership dues and initiations in any proper manner.

(e) Members of the pit committee employed as daymen shall not leave their places of duty during working hours, except by permission of the operator, or in cases involving the stoppage of the mine.

(f) The right to hire and discharge, the management of the mine, and the direction of the working force, are vested exclusively in the operator, and the U. M. W. of A. shall

not abridge this right. It is not the intention of this provision to encourage the discharge of employees, or the refusal of employment to applicants because of personal prejudice or activity in matters affecting the U. M. W. of A. If any employee shall be suspended or discharged by the company and it is claimed an injustice has been done him, an investigation to be conducted by the parties and in the manner set forth in paragraphs (a) and (b) of this section shall be taken up promptly, and, if it is proven that an injustice has been done, the operator shall reinstate said employee and pay him full compensation for the time he has been suspended and out of employment; provided, if no decision shall be rendered within five days the case shall be considered closed, insofar as compensation is concerned, unless said failure to arrive at a decision within five days is owing to delay upon the part of the operator, in which case a maximum of ten days' compensation shall be paid.

Fourteenth. The wages now being paid outside day labor at the various mines in this State, plus an advance of 12½ per cent, shall constitute the wage scale for that class of labor during the life of this agreement; provided, that no top man shall receive less than two dollars and two and a half cents per day.

Fifteenth. In the event of an instantaneous death by accident in the mine, the miners and underground employees shall have the privilege of discontinuing work for the remainder of that day; but work, at the option of the operator, shall be resumed the day following, and continue thereafter. In case the operator elects to operate the mine on the day of the funeral of the deceased, as above, or where death has resulted from an accident in the mine, individual miners and underground employees may, at their option, absent themselves from work for the purpose of attending such funeral, but not otherwise. And whether attending such funeral or not, each member of the U. M. W. of A. employed at the mine at which the deceased member was employed shall contribute 50 cents and the operator \$25 for the benefit of the family of the deceased, or his legal representatives, to be collected through the office of the company. In the event that the mines are thrown idle on account of the miners or other employees failure to report for work in the time intervening between the time of the accident and the funeral, or on the day of the funeral, then the company shall not be called upon for the payment of the \$25 above referred to.

Except in case of fatal accidents as above, the mine shall in no case be thrown idle because of any death or funeral; but in the case of the death of any employee of the company or member of his family, any individual miner may, at his option, absent himself from work for the purpose of attending such funeral, but not otherwise.

Sixteenth. (a) The scale of prices here-in provided shall include, in ordinary conditions, the work required to load coal and properly timber the working places in the mine, and the operator shall be required to furnish the necessary props and timber in rooms or working face. And in long wall mines it shall include the proper mining of the coal and the brushing and care of the working places and roadway according to the present method and rules relating thereto, which shall continue unchanged.

(b) If any miner shall fail to properly timber, shoot and care for his working

place, and such failure has entailed falls of slate, rock and the like, the miner whose fault has occasioned such damage shall repair the same without compensation and if such miner fails to repair such damage he may be discharged.

Any dispute that may arise as to the responsibility under this clause shall be adjusted by the pit committee and mine foreman, and in case of their failure to agree shall be taken up for settlement under the thirteenth section of this agreement.

In cases where the mine manager directs the placing of cross-bars to permanently secure the roadway, then, and in such cases only, the miner shall be paid at the current price for each cross-bar when properly set.

The above does not contemplate any change from the ordinary method of timbering by the miner for his own safety.

Seventeenth. The operators will recognize the pit committee in the discharge of its duties as herein specified, but not otherwise, and agree to check off union dues, assessments and fines from the miners and mine laborers, when desired, on proper individual or collective continuous order, and furnish to the miners' local representative a statement showing separately the total amount of dues, assessments and fines collected. When such collections are made, card days shall be abolished. In case any fine is imposed the propriety of which is questioned, the amount of such fine shall be withheld by the operator until the question has been taken up for adjustment and a decision has been reached.

Eighteenth. The operators shall have the right in cases of emergency work or ordinary repairs to the plant, to employ in connection therewith such men as, in their judgment, are best acquainted with and suited to the work to be performed, except where men are permanently employed for such work. Blacksmiths and other skilled labor shall make any necessary repairs to machinery and boilers.

Nineteenth. The erection of head frames, buildings, scales, machinery, railroad switches, etc., necessary for the completion of a plant to hoist coal, all being in the nature of construction work, are to be excluded from the jurisdiction of the United Mine Workers of America. Extensive repairs to or rebuilding the same class of work shall also be included in the same exception. The employees thereon to be excluded as above, when employed on such work only.

Twentieth. When any employé absents himself from his work for a period of two days, unless through sickness or by first having notified the mine manager and obtained his consent, he may be discharged.

Twenty-first. (a) Except at the basing point, Danville, the differential for machine mining throughout the State of Illinois shall be 7 cents per ton less than the pick mining rate. It being understood and agreed that the machine mining rate shall include the snubbing of coal either by powder or wedge and sledge, as conditions may warrant, where chain machine is used; but it is understood that this condition shall not apply where two men have and work in one place only in the same shift, except at the option of the miner; and it shall also be optional with the miner which system of snubbing shall be followed. The division of the machine mining rate shall be fixed in joint sub-district meeting.

(b) The established rates on shearing machines and air or electric drills as now existing, shall remain unchanged during the ensuing year.

Twenty-second. Any underground employé not on hand so as to go down to his work before the hour for commencing work, shall not be entitled to go below, except at the convenience of the company. When an employé is sick or injured, he shall be given a cage at once. When a cage load of men comes to the bottom of the shaft who have been prevented from working by reason of falls or other things over which they have no control, they shall be given a cage at once. For the accommodation of individual employés, less than a cage load, who have been prevented from working as above, a cage shall be run mid-forenoon, noon and mid-afternoon, of each working day: *Provided, however*, That the foregoing shall not be permitted to enable men to leave their work for other than the reasons stated above.

Twenty-third. This contract is in no case to be set aside because of any rules of the U. M. W. of A. now in force or which may hereafter be adopted; nor is this contract to be set aside by reason of any provision in their national, State or local constitution.

Twenty-fourth. All classes of day labor are to work full eight hours, and the going to and coming from the respective working places is to be done on the day hands' own time. All company men shall perform whatever day labor the foreman may direct. An eight-hour day means eight hours' work in the mines at the usual working places, exclusive of noon time, for all classes of inside day labor. This shall be exclusive of the time required in reaching such working places in the morning and departing from same at night.

Drivers shall take their mules to and from the stables, and the time required in so doing shall not include any part of the day's labor; their time beginning when they reached the chance at which they receive empty cars—that is, the parking drivers at the shaft bottom, and the inside drivers at the parting—and ending at the same places; but in no case shall a driver's time be docked while he is waiting for such cars at the points named. The inside drivers, at their option, may either walk to and from their parting, or take with them, without compensation, either loaded or empty cars, to enable them to ride. This provision, however, shall not prevent the inside drivers from bringing to and taking from the bottom regular trips, if so directed by the operator, provided such work is done within the eight hours.

The methods at present existing covering the harnessing, unharnessing, feeding and caring for the mules, shall be continued throughout the scale year beginning April 1, 1903; but in cases where any grievances exist in respect to same, they shall be referred to the sub-district meetings for adjustment.

When the stables at which the mules are kept are located on the surface and the mules are taken in and out of the mines daily by the drivers, the question of additional compensation therefor, if any, is to be left to the sub-districts affected for adjustment, at their joint sub-district meetings.

Twenty-fifth. Mission Field Scale:

Dirt and soapstone men.....	\$2 03
Trackmen	2 03
Coal drillers.....	2 03
Rock pickers.....	2 03
Tool carriers.....	2 03
Shooters.....	2 36
Sledgers and barriers.....	2 36
All firemen.....	2 36
Tile layers and ditching.....	2 36
Pump men.....	2 36
Watchmen.....	2 36
Machine men, 1st.....	3 04
Machine men, 2d.....	2 70
Locomotive engineers.....	3 04
Locomotive switchmen.....	2 36
Channelling machine runner.....	3 04
Blacksmiths, 1st.....	3 38
Blacksmiths, 2d.....	3 04
Blacksmiths' helper.....	2 36
Carpenter, 1st.....	2 70
Carpenter, 2d.....	2 36
Pipemen.....	2 70
Pipemen, helper.....	2 36
Water carrier.....	1 35
Team and teamster.....	3 38
All help not otherwise mentioned.....	2 03

Twenty-sixth. The company shall keep the mine in as dry condition as practicable by keeping the water off the road and out of the working places. When a miner has to leave his working place on account of water, through the neglect of the company, they shall employ said miner doing company work when practicable and provided that said miner is competent to do such work, or he will be given another working place until such water is taken out of his place.

Twenty-seventh. The operator shall keep sufficient blankets, oil, bandages, etc., and provide suitable ambulance or conveyance readily available at each mine to properly convey injured persons to their homes after an accident.

Twenty-eighth. The operator shall see that an equal turn is offered each miner, and that he be given a fair chance to obtain the same. The check weighman shall keep a turn bulletin for the turn-keeper's guidance. The drivers shall be subject to whomsoever the mine manager shall designate as turn-keeper in pursuance thereof.

In mines where there is both hand and machine mining an equal turn shall mean approximately the same turn to each man in the machine part of the mine, and approximately the same turn to each man doing hand work; but not necessarily the same to each miner as to each man working with the machines.

Twenty-ninth. There shall be no demands made locally that are not specifically set forth in this agreement, except as agreed to in joint sub-district meetings held prior to May 1, 1903. Where no sub-districts exist, local grievances shall be referred to the United Mine Workers' State Executive Board and the mine owners interested.

The United Mine Workers of America, District No. 12.

W. R. RUSSELL, *President*.

T. J. REYNOLDS, *Vice-President*.

W. D. RYAN, *Secretary-Treasurer*.

The Illinois Coal-Operators' Association.

O. L. GARRISON, *President*.

E. T. BENT, *Secretary*.

Springfield, Ill., March 7, 1903.

ILLINOIS FREE EMPLOYMENT OFFICES.

ESTABLISHED AUGUST 2, 1899.

Reviewing the work of the Free Employment Offices since their establishment, August 2, 1899, to the close of the last fiscal year, October 1, 1902, the following statement is presented:

Statement.

YEAR.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number filed.	Number of positions secured.	Number unfilled.	Number filed.	Number unfilled.
*1899.....	13,097	6,497	6,600	10,370	3,873
1900.....	37,285	31,218	6,067	35,542	4,324
1901.....	27,605	23,996	3,609	28,124	4,128
1902.....	44,900	40,181	4,719	47,497	7,316
Total.....	122,887	101,892	20,995	121,533	19,641

* Nine weeks.

This shows a total of 122,887 applications for employment, and 121,533 applications for help; also, that 101,892, or 83 per cent of those seeking employment were placed in positions, thereby supplying 84 per cent of those applying for help.

It may be well to mention in this connection, the cost to the State for maintaining these offices, as some criticisms touching this question have been made.

There are two distinct classes of our citizens that are directly concerned or to be included in whatever advantage or benefit may be brought about by or through the agency of these offices: these are the employer and the employé.

The foregoing statement shows that during the three years and nine weeks since these offices were established, 101,892 persons were assisted to obtain positions where they could work for wages, and, consequently, a like number of persons, who have use for the services of others, were supplied with such service. This makes a total of 203,784 persons directly involved and benefited by the assistance of these offices.

The total expense or cost to the State during the same period has been fifty-seven thousand three hundred and seventy-five dollars (\$57,375.00), or 28.2 cents for each position secured and filled. This should satisfy any reasonable person that for this small, almost insignificant, cost per capita, this large number of persons have been put in position to earn a livelihood and the same number furnished with the service sought for.

Considerable difficulty has been encountered in the enforcement of the law relating to private employment agencies. Two suits affecting the constitutionality of the act have been instituted, one affirmed by the court and the other still pending. The former case sought to have section 10 of the law set aside for the reasons that the fee, \$200.00 per annum, was excessive, and that the State could not engage in the same business for which it required a license from others. The court's decision held that the subject was one wholly within the police powers of the State, and that it declined to interfere with the discretion and prerogatives of the Legislature in enactments of that character. The pending suit attacks the validity of the entire law on the alleged grounds that the title embraces two distinct subjects, and is for that reason void. The principal defects of the law is the failure to provide the necessary machinery for its enforcement, and the omission to prescribe regulations governing the operation of private employment agencies. At present the only condition exacted of persons employed in that business is that they shall file a bond and pay a license fee of \$200.00 per annum. Governor Yates, in his message to the present General Assembly, recommended that the act be amended so as to provide that private employment agencies should be placed under the supervision and control of the Commissioners of Labor; that the annual fee be reduced to a more reasonable sum; that certain requirements relating to the keeping of records; the charging of registration fees; the sending of female help to places of

bad repute; prohibiting such agencies in places where intoxicating liquors are sold, should be observed. A bill embracing these suggestions has been offered for the favorable consideration and action of the Legislature.

NOTE. The General Assembly enacted an entirely new law to govern free employment offices and to regulate private employment agencies. This law went into effect May 11, 1903, and is published in full at the close of this report.

RECORD OF THE WORK OF THE FOUR OFFICES FOR THE YEAR 1902.

The work performed by the offices is set forth in condensed form as follows:

TABLE I—*Showing the Combined Business of the Four Offices for the Year.*

OFFICES.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number Filed.	Number of Positions Secured.	Number Unfilled.	Number Filed.	Number Unfilled.
North Side Office—Males.....	5,666	5,493	173	7,650	2,157
North Side Office—Females.....	4,226	4,117	109	5,153	1,036
Totals	9,892	*9,610	282	12,803	3,193
South Side Office—Males.....	12,438	11,761	677	12,540	779
South Side Office—Females.....	6,013	5,791	222	7,481	1,690
Totals	18,451	†17,552	899	20,021	2,469
West Side Office—Males.....	6,830	4,918	1,912	5,347	429
West Side Office—Females.....	2,358	2,028	330	2,704	676
Totals	9,188	‡6,946	2,242	8,051	1,105
Peoria Office—Males.....	5,223	4,489	734	4,705	216
Peoria Office—Females	2,146	1,584	562	1,917	333
Totals	7,369	‡6,073	1,296	6,622	549
Total Males—Four Offices.....	30,157	26,661	3,496	30,242	3,581
Total Females—Four Offices	14,743	13,520	1,223	17,255	3,735
Grand total	44,900	¶40,181	4,719	47,497	7,316

* Of this number 510 males and 357 females, a total of 867, were secured positions on applications filed last year.

† Of this number 200 males and 23 females, a total of 223, were secured positions on applications filed last year.

‡ Of this number 551 males and 25 females, a total of 576, were secured positions on applications filed last year.

§ Of this number 1 male and 3 females, a total of 4, were secured positions on applications filed last year.

¶ Of this number 1,262 males and 408 females, a total of 1,670, were secured positions on applications filed last year.

Here it is shown that 44,900 persons applied to these offices, during the year for employment. This is an increase over last year of 17,295, or 62.65 per cent; however, the Peoria Office only reported for three months last year. It will be noticed in the foot note to the table, that 1,670 applicants were brought forward from those filed last year, of which 1,262 were males and 408 females; thus making a total of 46,570 applications for employment. To this number may be added 47,497 applications of persons seeking help, which gives a total of 94,067 applications handled and cared for by these offices during the year.

Calling attention to the 46,570 applications for employment, it is found that 31,319 or 67.46 per cent were males and 15,151 or 32.54 per cent females. Turning to the applications for help it is found that of 47,497 filed, 30,242 or 63.67 per cent were for male help and 17,255 or 36.33 per cent for female help. The proportion of both, applications for employment, and applications for help, being very nearly in the same ratio. Of the 46,570 applications for employment there have been 40,181 or 86.28 per cent who have been placed in positions, of this number 26,661 or 66.35 per cent were males, and 13,520 or 33.65 per cent females.

Referring to the 31,419 males applying for places to work, it is shown that 26,661 or 84.85 per cent were secured positions, and that of the 15,151 females, 13,520 or 89.24 per cent were put in position to get employment. Considering, in this connection, the applications for help, it is found that of the 47,497 applications filed, 40,181 or 84.60 per cent were supplied.

The following table gives the percentages for each of the offices and for all offices combined:

TABLE II—*Percentages of Positions Secured and Percentages of Help Furnished, both Male and Female.*

OFFICES.	PERCENTAGE OF POSITIONS SECURED APPLICANTS FOR EMPLOYMENT.			PERCENTAGE OF APPLICA- TIONS FOR HELP FURNISHED.		
	Male.	Female.	Both male and female.	Male.	Female.	Both male and female.
North Side Office.....	88.92	89.83	89.32	71.80	79.90	75.06
South Side Office.....	93.06	95.94	93.99	93.79	77.41	87.67
West Side Office.....	66.63	85.10	71.14	91.98	75.00	86.28
Peoria Office	85.93	73.71	82.23	95.41	82.63	91.71
The four offices.....	81.85	89.24	86.23	88.16	78.35	84.60

A comparison of these percentages with those of last year reveals very little change, some are increased while others are decreased. The South Side Office, Chicago, furnished positions for the largest percentage of its applicants for employment, and the Peoria office the largest percentage of applicants for help.

The following table of applications for employment, gives the combined work of the four offices of the State:

APPLICATIONS FOR EMPLOYMENT.

TABLE 3.—*Work of All of the Offices—Three in Chicago, One in Peoria—1902.*

Males.

Number.	CLASSIFICATION OF OCCUPATIONS.	OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Totals	9,892	18,451	9,188	7,369	44,900
	Males	5,666	12,438	6,830	5,223	30,157
	Females	4,226	6,013	2,358	2,146	14,743
1	Agents		9		1	10
2	Apprentices			47	8	55
3	Artists		3	1		4
4	Bakers	3	27	16	37	83
5	Barbers		2		2	4
6	Barnmen	124	226	10	54	414
7	Bartenders	4	28	17	1	50
8	Bench hands			11	23	34
9	Bill posters		3			3
10	Blacksmiths	65	41	10	35	151
11	Blacksmith helpers	2		35		37
12	Boiler makers	9			1	12
13	Bookbinders	1		3		4
14	Bookkeepers	11	30	19	21	81
15	Boot blacks		4			4
16	Boxmakers		28	8	7	43
17	Boys		202	17	38	257
18	Boys—bell		42	2	24	68
19	Boys—cash		61	2		63
20	Boys—delivery	131	184	10	104	430
21	Boys—elevator				22	22
22	Boys—errand		68	22	27	117
23	Boys—factory				108	108
24	Boys—office		142	64	14	220
25	Brakemen	1		2	1	4
26	Brass finishers			2		2
27	Bricklayers		4	3		7
28	Bridge builders			1		1
29	Brush makers			1		1
30	Butchers	3	24	14	6	47
31	Butlers		10	1		11
32	Cabinet makers	2	2	3	9	16
33	Calcinimers		6		1	7
34	Carpet layers		7			7
35	Canvassers	9	1	2	36	48
36	Carriage trimmers				2	2
37	Carpenters	71	172	48	64	355
38	Carriage finishers			1		1
39	Carriage and wagon washers	5		23		28
40	Caterers		5			5

Table 3—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
41	Cashiers.....		2			2
42	Checkers.....			3		3
43	Cigarmakers.....				1	1
44	Circular distributors.....			1		1
45	Cleaners—harness.....		5	6		11
46	Cleaners—wagon.....		9			9
47	Clerks—bill.....			7	9	16
48	Clerks—drug.....		17		2	19
49	Clerks—dry goods.....		5		5	10
50	Clerks—grocery.....		8	24	39	71
51	Clerks—hotel.....		15	5	5	25
52	Clerks—shipping.....		20	41	10	71
53	Clerks—general.....	90	155	3	5	253
54	Clerks and salesmen.....				18	18
55	Coachmen.....	31	73	7	24	135
56	Coal passers.....			5		5
57	Coal miners.....				20	20
58	Collectors.....	7	22	19	20	68
59	Cooks.....	60	364	41	112	577
60	Coopers.....	1	2	6		9
61	Conductors.....	1		4	4	9
62	Coremakers.....			2		2
63	Dairymen.....				8	8
64	Demonstrators.....		13			13
65	Dishwashers.....	35	544	25	73	677
66	Draughtsmen.....			1		1
67	Drill pressmen.....			30	7	37
68	Drivers.....	167		133	41	341
69	Druggists.....				1	1
70	Electrician helpers.....			3		3
71	Electricians.....	2	23	30	2	57
72	Elevatormen.....	13	70	50		133
73	Engineers.....	17	93	58	36	204
74	Factory hands.....	518	150	515	182	1,365
75	Farmers.....	100		1		101
76	Farm hands.....		658	255	158	1,071
77	Firemen.....	25	122	103	19	269
78	Florists.....	3			3	6
79	Foremen.....		1	3		4
80	Foundrymen.....			2		2
81	Furnace tenders.....			3		3
82	Gardeners.....	2	45	5	6	58
83	Glaziers.....		1			1
84	Harness makers.....		11	1	3	15
85	Horseshoers.....		1			1
86	Hostlers.....		100	50	21	171
87	Housemen.....	189	674	86	24	973
88	Iron workers.....		12	13		25
89	Janitors.....	82	277	76	53	488
90	Kitchenwork.....	28	120	3	47	198
91	Laborers.....	2,903	3,146	3,368	2,664	12,081
92	Laborers—railroad.....		1,481	4	263	1,754
93	Lathe hands.....	2		21		23
94	Lathers.....			1		1
95	Laundrymen.....	1	13	4	2	20
96	Machine hands.....		43	80		123
97	Machinists.....	96	111	136	52	395
98	Machinists' helpers.....			62		62
99	Meat cutters and slaughterers.....				1	1
100	Metal workers.....	1				1
101	Millers.....			1		1
102	Millwrights.....		4	5	3	12
103	Mill hands.....				6	6
104	Models.....		7			7
105	Moulders.....		26	9	21	56
106	Motormen.....	4		2		6
107	Nurses.....	2	12	2	1	17
108	Office help.....	11		4	40	55
109	Oilers.....	2		8		10
110	Packers.....	17	79	41	3	140
111	Painters.....	18	57	21	26	122

Table 3—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
112	Paper hangers		5			5
113	Pantrymen			2		2
114	Pan washers				8	8
115	Pattern makers	1	4	3	2	10
116	Photographers		1	2		3
117	Piano tuners			1		1
118	Plow fitters				1	1
119	Plumbers' helpers			2		2
120	Plumbers	4	1		2	7
121	Polishers—metal			12	8	20
122	Polishers—not stated	6		6		12
123	Porters	107	772	148	57	1,084
124	Pressers			4		4
125	Pressmen		8	1	1	10
126	Printers	3	6	7	4	20
127	Punch press hands			32		32
128	Potters				11	11
129	Roofers			1		1
130	Salesmen	1	48	41	58	148
131	Steam shovelers				3	3
132	Sawyers			5		5
133	Shoemakers		4	5		9
134	Solicitors	6	29		45	80
135	Steam fitters	1	11	9	8	29
136	Stenographers	22	12	6	9	49
137	Stewards		1			1
138	Stock farm hands	14	137	1		152
139	Stock keepers			5		5
140	Stone cutters			2		2
141	Stone masons				5	5
142	Stovemmen	1	2		3	6
143	Tailors	1	3	4	1	9
144	Teachers—not stated	1				1
145	Teamsters	547	562	201	155	1,465
146	Telegraphers		4			4
147	Time keepers			8		8
148	Tinsmiths		17	6	10	33
149	Tool makers			3	1	4
150	Truckmen			11	9	20
151	Upholsterers	1	4		3	8
152	Valet		1			1
153	Vise hands			3		3
154	Wagon makers		2		1	3
155	Waiters	28	470	21	43	562
156	Watchmen	26	62	65	25	178
157	Weavers		2			2
158	Whitewashers			1		1
159	Wholesale men			34		34
160	Window dressers	1				1
161	Window washers	9	283	58		350
162	Wood finishers			3		3
163	Wood choppers		5			5
164	Woodworkers	2	13	5	17	37
165	Yardmen		47	2	46	95
166	Miscellaneous—not classified	15		321	3	339

Table 3—Concluded.

Females.

Number.	CLASSIFICATION OF OCCUPATIONS.	OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
1	Artists.....		1			1
2	Berry pickers.....			6		6
3	Bindery girls.....		1			1
4	Bookkeepers.....	3	8	3	22	36
5	Caterers.....		1			1
6	Canvassers.....				15	16
7	Cashiers.....	5	21	9		35
8	Clerks.....	13	39	18	8	78
9	Chambermaids.....	259	504	154	53	970
10	Companions.....	2	7	1	4	14
11	Collectors.....		4		9	13
12	Cooks.....	429	521	185	103	1,243
13	Copyists.....		2			2
14	Day workers.....	270	143	147	77	637
15	Demonstrators.....		2		5	7
16	Diningroom help.....	148		91	107	346
17	Dishwashers.....	241	580	110	104	1,035
18	Domestics.....			552	21	573
19	Factory work.....	146	158	358	150	812
20	General housework.....	1,708	1,825		881	4,414
21	Hotel help.....				30	30
22	Housekeepers.....	78	131	54	90	353
23	Hall girls.....		4			4
24	Janitresses.....	2	11	3	14	30
25	Kitchen help.....	293	458	125	56	932
26	Lady's maid.....		1			1
27	Laundresses.....	72	196	98	31	397
28	Linen room girl.....		1			1
29	Models.....		1			1
30	Milliners.....			1		1
31	Nurses.....	79	115	44	11	249
32	Nurse girls.....				51	51
33	Office work.....	30	56	30	41	157
34	Pantry work.....	10	97	25	3	135
35	Paint cleaners.....			2		2
36	Printers.....		1		1	2
37	Reception service.....	1	11	2		14
38	Saleswomen.....	3	4		37	44
39	Scrub women.....	78	340	137	6	561
40	Seamstresses.....	41	33	32	27	133
41	Second work.....	158	147	16	99	420
42	Solicitors.....	1	3			4
43	Stenographers.....	23	53	28	48	152
44	Tailloresses.....				2	2
45	Teachers—not stated.....		2	1		3
46	Telephone girls.....				19	19
47	Typewriters.....				3	3
48	Waitresses.....	128	531	111		770
49	Washerwomen.....				11	11
50	Wrappers.....	2		1		3
51	Miscellaneous—occupation not stated.....	3		3		6

This represents the applications of 30,157 males seeking employment in the 166 occupations, and 14,743 females in 51 occupations, making a total of 44,900 for all of the offices.

Referring to the applications of males, the combined work of the Chicago Offices show an increase of 10,287 or 70 per cent over last year: The Peoria Office had a slight falling off compared with the three months reported last year. The work of the Chicago Offices in regard to applications made by females, shows an increase of 1,947

or 18 per cent over last year. The Peoria Office shows a small decrease. Considering the entire work of the Chicago Offices, as to receiving applications for employment, it will be noticed that the number received by the South Side Office almost equals that of both the North and West Side, being 49.16 per cent of the total number recorded.

The next table is closely allied to the one preceding, being the record of positions procured applicants during the year.

POSITIONS SECURED.

TABLE 4.—*Work of all the Offices, three in Chicago, one in Peoria.*

Males.

Number.	CLASSIFICATION OF OCCUPATIONS.	OFFICES.				Totals.
		North Side.	South Side.	West Side.	Peoria.	
	Totals	9,610	17,552	6,946	6,073	40,181
	Males	5,493	11,761	4,918	4,489	26,661
	Females	4,117	5,791	2,028	1,584	13,520
1	Agents		7		1	8
2	Apprentices			3	2	5
3	Artists		2			2
4	Bakers		25		25	50
5	Barbers		1		1	2
6	Barnmen	110	212	6	50	378
7	Bartenders	3	25	5		33
8	Bench hands			5	22	27
9	Bill posters		3			3
10	Blacksmiths	57	38	4	23	122
11	Blacksmith helpers	2		22		24
12	Boiler makers	8				8
13	Boot blacks		4			4
14	Bookkeepers	1	12	1	6	20
15	Bottle washers			1		1
16	Boxmakers		25	1	7	33
17	Boys	108	201	12	29	350
18	Boys—bell		38		24	62
19	Boys—cash		56			56
20	Boys—delivery		176	4	91	271
21	Boys—elevator				18	18
22	Boys—errand		58	11	25	94
23	Boys—factory				103	103
24	Boys—office		141	6	10	157
25	Brakemen	1			1	2
26	Bricklayers		4	3		7
27	Brushmakers			1		1
28	Butchers	1	21	5	2	29
29	Butlers		9			9
30	Cabinetmakers		2		6	8
31	Calclminers		6			6
32	Canvassers	9	1	1	35	46
33	Carpetlayers		7			7
34	Carpenters	61	159	26	38	284
35	Carriage trimmers				2	2
36	Carriage and wagon washers	5		17		22
37	Cashiers		2			2
38	Caterers		5		5	5
39	Cleaners—harness		5	3		8
40	Cleaners—wagons		9			9
41	Clerks—bill			1		1
42	Clerks—drug		4		2	6
43	Clerks—drygoods		2		1	3

Table 4—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	OFFICES.				Totals.
		North Side.	South Side.	West Side.	Peoria.	
44	Clerks—grocery		6	6	6	18
45	Clerks—hotel		4		2	6
46	Clerks—shipping		14		3	17
47	Clerks—general	42	53	3	2	100
48	Clerks and salesmen				5	5
49	Coachmen	20	61		10	91
50	Coal heavers			5		5
51	Coal miners				20	20
52	Collectors		12		5	17
53	Cooks	38	329	12	84	463
54	Coopers		2	3		5
55	Conductors	1			3	4
56	Dairymen				7	7
57	Demonstrators		13			13
58	Dishwashers	27	525	17	73	642
59	Drill pressman			4	2	6
60	Drivers	145		51	28	224
61	Electricians		21		1	22
62	Elevatormen	4	61	4		69
63	Engineers	8	63	12	5	83
64	Factory hands	464	145	243	145	997
65	Farm hands	71	654	162	118	1,005
66	Firemen	8	102	23	10	143
67	Florists	1			3	4
68	Foremen		1			1
69	Gardeners	2	40	1	6	49
70	Glaziers		1			1
71	Harnessmakers		11		2	13
72	Horseshoers		1			1
73	Hostlers		95	33	10	138
74	Housemen	152	624	25	19	820
75	Ironworkers		12	3		15
76	Janitors	54	246	30	32	362
77	Kitchen work	24	111	1	43	179
78	Laborers	2,787	3,025	3,082	2,612	11,506
79	Laborers—railroad		1,451		268	1,719
80	Lathe hands	1		2		3
81	Laundrymen		13	1		14
82	Machine hands		40	12		52
83	Machinists	73	99	48	26	246
84	Machinists' helpers			17		17
85	Meat cutters and slaughterers				2	2
86	Metal workers	1				1
87	Mill hands			1	5	6
88	Millwrights		4	4	1	9
89	Models		7			7
90	Molders		24	4	12	40
91	Motormen	2		1		3
92	Nurses		11		2	13
93	Office help				6	6
94	Oilers			1		1
95	Packers	7	71	7	3	88
96	Painters	12	44	4	17	77
97	Paper hangers		5			5
98	Pattern makers		4	1	2	7
99	Plow fitters				1	1
100	Plumbers	1	1			2
101	Polishers—metal			10	6	16
102	Polishers—not stated	6		2		8
103	Porters	73	710	97	37	917
104	Potters				11	11
105	Presmen		8			8
106	Printers	1	3	2	1	7
107	Pressers			1		1
108	Salesmen		38	2	36	76
109	Steam shovelers				3	3
110	Shoemakers		4			4
111	Solicitors	1	27		40	67
112	Steamfitters		8		5	14
113	Stenographers	5	5	1	5	16
114	Stewards		1			1
115	Stock farm hands	12	133			145
116	Stockkeepers			1		1

Table 4—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	OFFICES.				Totals.
		North Side.	South Side.	West Side.	Peoria.	
117	Stonemasons.....				3	3
118	Stovemenn.....				3	3
119	Tailors.....	1	2		1	4
120	Teamsters.....	531	532	109	116	1,288
121	Telegraphers.....		1			1
122	Tinsmiths.....		15	6	7	28
123	Truckmen.....			4	9	13
124	Upholsterers.....		4		2	6
125	Valet.....		1			1
126	Wagonmakers.....		2			2
127	Walters.....	15	449	8	29	501
128	Watchmen.....	7	22	6	1	36
129	Weavers.....		2			2
130	Whitewashers.....			1		1
131	Windowwashers.....	9	268	44		321
132	Woodchoppers.....		5			5
133	Woodworkers.....	2	10		10	22
134	Yardmen.....		45	1	37	83
135	Miscellaneous—not classified.....	14		112	1	127

Females.

Females.....	3,760	5,768	2,003	1,581	13,112
Applications previously filed.....	357	23	25	3	408
Totals.....	4,117	5,791	2,028	1,584	13,520
1 Berry pickers.....			6		6
2 Bookkeepers.....	2	5		8	15
3 Bindery girls.....		1			1
4 Canvassers.....				14	14
5 Cashiers.....	1	11			12
6 Clerks.....	3	25	3	3	34
7 Caterers.....		1			1
8 Chambermaids.....	221	497	141	33	892
9 Companions.....	2	2		2	6
10 Collectors.....		1		4	5
11 Cooks.....	398	520	126	93	1,137
12 Copyists.....		1			1
13 Dayworkers.....	255	137	68	21	481
14 Demonstrators.....		2		2	4
15 Diningroom help.....	135		91	84	310
16 Dishwashers.....	224	571	107	69	971
17 Domestic.....			513	19	532
18 Factory work.....	119	153	341	84	697
19 General housework.....	1,620	1,811		817	4,248
20 Hotel help.....				16	16
21 Housekeepers.....	41	113	28	43	225
22 Hall girls.....		4			4
23 Janitresses.....	2	8	2	4	16
24 Kitchen help.....	261	455	125	51	892
25 Lady's maid.....		1			1
26 Laundresses.....	63	193	91	31	378
27 Models.....		1			1
28 Milliners.....			1		1
29 Nurse girls.....				24	24
30 Nurses.....	57	102	35	6	200
31 Office work.....	14	19	7	4	44
32 Pantry work.....	8	96	25	1	130
33 Paint cleaners.....			2		2
34 Saleswomen.....		1		11	12
35 Scrubwomen.....	69	332	136	6	543
36 Seamstresses.....	23	25	31	15	94
37 Second work.....	125	146	13	73	357
38 Solicitors.....		3			3
39 Stenographers.....	7	10	1	15	33
40 Telephone girls.....				19	19
41 Washerwomen.....				9	9
42 Waitresses.....	106	521	111		738
43 Wrappers.....	1				1
44 Miscellaneous—occupation not stated....	3				3

This presentation with that of table 3 represents what may be termed the supply and demand in the labor market, transacted by these offices during the year.

Positions have been secured for the males in 135 occupations, and for females in 44 occupations. The explanation that, of the 166 occupations of males represented in the applications for employment, only 135 occupations are shown in the list of positions secured, is that many applying for employment give certain occupations desired, and afterwards accept positions other than the one named in the original application. The same is true of the females, of the fifty-one occupations shown in the list of applicants only 44 are named in the positions secured.

Directing attention to the total number of positions secured by all the offices, and by the different offices, and comparing the work with last year, it is found that all the offices combined secured positions for 12,485 more persons than last year, or an increase in finished work of 45.1 per cent.

The increase of accomplished work in securing positions over last year, by the different offices, shows the North Side as 83.15 per cent, the South Side 42.48 per cent, the West Side 33.32 per cent and the Peoria Office 23.43 per cent.

To present the efficiency of the work of the offices in a more condensed form, showing the leading occupations in which much the larger number seek and find employment, the following is presented:

TABLE 5.—*Summary of the Leading Occupations, Showing Applications for Employment and Help with Percentages.*

	OCCUPATIONS.	Applica- tions for employ- ment.	Positions secured.	Applica- tions for help.	PERCENTAGE.	
					Securing work.	Securing help.
Number.	Totals	40,336	35,708	43,687	88.52	81.74
	Males	25,819	22,713	26,785	87.97	84.8
	Females	14,517	12,995	16,902	89.5	96.88
	MALES—					
1	Barnmen	414	378	419	91.30	90.21
2	Boys	1,284	1,111	1,423	86.53	78.07
3	Carpenters	355	284	329	80.	86.32
4	Canvassers and collectors	116	63	89	54.32	70.79
5	Clerks and salesmen	631	232	237	36.77	97.89
6	Coachmen	135	91	100	67.41	91.

Table 5—Concluded.

Number.	OCCUPATIONS.	Applica- tions for employ- ment.	Positions secured.	Applica- tions for help.	PERCENTAGE.	
					Securing work.	Securing help.
7	Cooks.....	577	463	497	80.24	93.16
8	Dishwashers.....	677	642	671	94.83	95.68
9	Factory hands.....	1,365	997	1,291	73.04	77.23
10	Farm hands and farmers....	1,172	1,005	1,245	85.75	80.72
11	Housemen.....	973	820	898	84.28	91.33
12	Janitors.....	488	362	387	74.18	93.54
13	Laborers.....	13,835	13,225	15,910	95.59	83.12
14	Machinists.....	395	246	312	62.28	78.84
15	Machine hands.....	123	52	58	42.28	89.67
16	Porters.....	1,084	917	975	84.6	94.05
17	Teamsters.....	1,465	1,288	1,463	87.92	88.04
18	Waiters.....	562	501	538	89.15	93.12
19	Watchmen.....	168	36	43	21.43	83.72
FEMALES—						
1	Chambermaids.....	970	892	1,023	91.96	87.19
2	Clerks and saleswomen.....	122	46	59	37.7	77.97
3	Cooks.....	1,243	1,137	1,491	91.47	76.26
4	Dayworkers.....	637	481	506	75.51	95.06
5	Dining room help.....	346	310	460	89.6	67.39
6	Dishwashers.....	1,035	970	1,096	93.72	88.50
7	Domestics.....	573	532	626	92.84	84.99
8	Factory work.....	812	697	1,361	85.84	51.21
9	General housework.....	4,414	4,248	5,539	96.24	76.69
10	Housekeepers.....	363	225	302	61.98	74.5
11	Kitchen work.....	932	892	1,054	95.71	84.63
12	Laundresses and washwomen	408	387	409	94.85	94.62
13	Nurses.....	249	200	262	80.32	76.34
14	Nurse girls.....	51	22	25	47.06	96.
15	Office work and bookkeepers.	193	59	79	30.57	74.68
16	Pantry work.....	135	130	153	96.3	84.97
17	Scrub women.....	561	543	641	96.79	84.71
18	Seamstresses.....	133	93	190	70.68	49.47
19	Second work.....	420	357	473	85.	75.43
20	Stenographers.....	152	33	41	21.71	80.05
21	Waitresses.....	770	738	1,112	94.55	66.37

Here is presented a classification of 19 different occupations for males, out of 166 represented in table three, and 21 occupations for females, out of the 51 shown in the same table.

This represents 40,336 or 80 per cent of the total applications for employment, and 43,687 or 92 per cent of those applying for help. Of the total number of the applications for employment here shown, 25,819 were males and 14,517 females. These represent 97 per cent of the total males, and 98 per cent of the females, as shown in table one. Observing the column of applications for help it will be seen that 26,785 were for males and 16,902 for females. For the males this is 89 per cent of the total applying for help, and 98 per cent of the females.

Therefore, taking notice of these large percentages, it is apparent that this condensed presentation is a fair exhibition of the business transacted by the offices for the year. The reading of the columns of percentages will give a very clear comprehension of the relation between the desire to obtain employment and the desire to obtain help.

Of the males 86 per cent of the farm hands applying were furnished work, while 81 per cent in need of this class of help were supplied; 96 per cent of laborers wanting work were provided with places, supplying 83 per cent of the demand; 88 per cent of the teamsters were given employment, serving 88 per cent of those asking this kind of help.

Of the females only 22 per cent of the stenographers applying for places were found employment, yet this supplied 80 per cent of requirement. Combining the applicants for clerical or office work only 30 per cent could be placed in positions, but this supplied 77 per cent of the demand.

Taking those classed as domestics, general house work and second work, these being presumably for the home life, it is found that out of nearly 6,000 applications for work, 96 per cent found places, thus supplying to the homes 79 per cent of those seeking this class of assistance.

The next two tables present the classified occupations, showing the applications for employment and help and positions secured with percentages of each class:

TABLE 6.—*Classified Occupations of Applicants for Employment, Positions Secured and Applications for Help in the Four Offices, with Percentages in Each Class.*

Males.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	Males	30,157	.....	26,661	.....	30,242	.....
	Not classified.....			1,262			
	AGRICULTURAL—.....	1,396	100.00	1,210	100.00	1,469	100.00
1	Dairymen.....	8	.57	7	.58	7	.48
2	Farmers.....	101	7.24			132	8.99
3	Farm hands.....	1,071	76.72	1,005	83.06	1,113	75.75
4	Florists.....	6	.43	4	.33	5	.34
5	Gardeners.....	58	4.15	49	4.05	57	3.88
6	Stock farm hands.....	152	10.98	145	11.98	155	10.65
	CLERICAL—.....	608	100.00	188	100.00	194	100.00
1	Bookkeepers.....	81	13.3	20	10.64	20	10.31
2	Clerks—Bill.....	16	2.65	1	.53	1	.52
3	Clerks—Hotel.....	25	4.11	6	3.19	6	3.09
4	Clerks—Shipping.....	71	11.68	17	9.04	19	9.79
5	Clerks—Drug.....	19	3.13	6	3.20	6	3.09
6	Clerks—Dry goods.....	10	1.64	3	1.60	3	1.54
7	Clerks—Grocery.....	71	11.68	18	9.57	13	6.70
8	Clerks—General.....	253	41.61	100	53.20	102	52.58
9	Stenographers.....	49	8.06	16	8.51	23	11.86
10	Stockkeepers.....	5	.82	1	.53	1	.52
11	Timekeepers.....	8	1.32				
	COMMERCIAL—.....	1,218	100.00	826	100.00	960	100.00
1	Agents.....	10	.82	8	.97	8	.83
2	Boys—Cash.....	63	5.17	56	6.78	58	6.04
3	Boys—Delivery and general.....	429	35.22	271	32.81	290	30.12
4	Boys—Factory.....	108	8.87	103	12.47	118	12.31
5	Boys—Office.....	220	18.07	157	19.02	188	19.59
6	Canvassers.....	48	3.95	46	5.57	72	7.5
7	Cashiers.....	2	.16	2	.24	2	.21
8	Checkers.....	3	.24				
9	Circular distributors.....	1	.08			1	.10
10	Collectors.....	68	5.58	17	2.06	17	1.80
11	Caterers.....	5	.42	5	.61	5	.52
12	Draughtsmen.....	1	.08				
13	Demonstrators.....	13	1.06	13	1.57	13	1.40
14	Salesmen.....	148	12.16	76	9.20	82	8.54
15	Salesmen and clerks.....	18	1.47	5	.60	5	.52
16	Solicitors.....	80	6.57	67	8.11	101	10.52
17	Window dressers.....	1	.08				

Table 6—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	DOMESTIC SERVICE—.....	4,100	100.00	3,539	100.00	3,796	100.00
1	Butlers	11	.27	9	.25	9	.23
2	Carpet layers	7	.17	7	.20	7	.20
3	Cooks	577	14.07	463	13.08	497	13.20
4	Dishwashers	677	16.51	642	18.04	671	17.60
5	Housemen	973	23.73	820	23.19	898	24.30
6	Kitchenwork	198	4.83	179	5.07	192	5.06
7	Pantry work	2	.05				
8	Porters	1,084	26.43	917	25.91	975	25.1
9	Stewards	1	.02	1	.03	1	.01
10	Walters	562	13.73	501	14.23	538	14.1
11	Pan washers	8	.19			8	.20
	MANUAL LABOR—.....	13,840	100.00	13,230	100.00	15,915	100.00
1	Coal passers	5	.04	5	.4	5	.3
2	Laborers	12,081	87.29	11,506	86.97	13,969	87.77
3	Laborers—Railroad	1,754	12.67	1,719	12.99	1,941	12.20
	PROFESSIONAL—.....	23	100.00	15	100.00	16	100.00
1	Artists	4	17.39	2	13.33	2	12.50
2	Druggists	1	4.35				
3	Nurses	17	73.91	13	86.67	14	87.50
4	Teachers	1	4.25				
	TRADES—.....	2,660	100.00	1,618	100.00	1,982	100.00
1	Bakers	83	3.12	50	3.50	54	2.8
2	Barbers	4	.15	2	1.25	2	.10
3	Bartenders	50	1.89	43	2.04	36	1.8
4	Bench hands	34	1.29	27	1.76	27	1.4
5	Blacksmiths	151	5.68	122	8.5	160	8.3
6	Boilermakers	12	.45	8	.50	14	.7
7	Bookbinders	4	.15				
8	Boxmakers	43	1.62	33	2.04	33	1.6
9	Brass finishers	2	.08				
10	Bricklayers	7	.26	7	.43	7	.45
11	Bridge builders	1	.04				
12	Brushmakers	1	.04		.01	1	.01
13	Butchers	47	1.77	29	2.35	35	1.8
14	Cabinet makers	16	.60	8	.50	32	1.6
15	Calceminers	7	.26	6	.32	6	.40
16	Candy makers	1	.04				
17	Carpenters	355	13.35	284	17.50	329	11.25
18	Carriage trimmers	3	.11	2	.01	3	.12
19	Cigar makers	1	.04				
20	Coal miners	20	.75	20	1.23	24	1.2
21	Coopers	9	.34	5	.30	8	.42
22	Coremakers	2	.08				
23	Drill press hands	37	1.39	6	.32	8	.42
24	Electricians	57	2.13	22	1.35	24	1.2
25	Engineers	204	7.67	83	5.40	90	4.6
26	Firemen	269	10.11	143	8.75	155	8.00
27	Glaziers	1	.04	1	.01	1	.01
28	Harness makers	15	.55	13	.80	13	.6
29	Horseshoers	1	.04	1	.01	2	.01
30	Iron workers	25	.94	15	.91	22	1.12
31	Lathe hands	23	.86	3	.01	10	.5
32	Lathers	1	.04				
33	Laundrymen	20	.75	14	.80	16	.8
34	Machine hands	123	4.62	52	3.20	59	3.00
35	Machinists	395	14.85	246	14.55	312	16.5
36	Masons—Stone	5	.18	3	.01	5	.35
37	Metal workers	1	.04	1	.01	6	.01

Table 6—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	TRADES— <i>Concluded.</i>						
38	Millers	1	.04	1	.01		
39	Millwrights	12	.45	9	.50	14	.72
40	Molders	56	2.10	40	2.50	96	.50
41	Packers	140	5.26	88	5.40	191	7.25
42	Painters	122	4.60	77	4.50	86	4.4
43	Paper hangers	5	.19	5	.30	46	.4
44	Pattern makers	10	.38	7	.43	19	1.00
45	Photographers	3	.11				
46	Piano tuners	1	.04				
47	Plumbers	7	.26	2	.06	3	.15
48	Polishers—Metal	20	.75	16	.95	20	1.02
49	Polishers—Not stated	12	.45	8	.50	16	8.2
50	Plow fitters	1	.04	1	.01	1	.01
51	Potters	11	.41	11	.92	15	8.1
52	Pressers	4	.15	1	.01	1	.01
53	Pressmen	10	.38	8	.50	8	.42
54	Printers	20	.75	7	.43	7	.40
55	Punch press hands	32	1.20				
56	Roofers	1	.04				
57	Sawyers	5	.18			1	.01
58	Shoemakers	9	.34	4	.25	4	.20
59	Steamfitters	29	1.09	14	.90	16	8.2
60	Stone cutters	2	.08				
61	Tailors	9	.34	4	.25	10	.5
62	Telegraphers	4	.15	1	.01	1	.01
63	Tinsmiths	33	1.24	28	1.40	34	2.00
64	Toolmakers	4	.15				
65	Upholsterers	8	.30		.32	6	.40
66	Wagon makers	3	.11	2	.01	3	.15
67	Weavers	2	.08	2	.01	2	.10
68	Wood choppers	5	.19	5	.30	5	.30
69	Wood workers	40	1.50	22	1.35	25	1.3
70	Wagon cleaners	9	.34	9	.50	9	.5
	TRANSPORTATION—	2,726	100.00	2,230	100.00	2,570	100.00
1	Barnmen	414	15.20	378	17.75	419	15.44
2	Brakemen	4	.15	1	.01	1	.01
3	Carriage washers	23	1.03	22	1.09	30	2.66
4	Coachmen	135	4.95	91	4.05	100	4.00
5	Conductors	9	.31	4	.02	4	.25
6	Drivers	341	12.51	224	10.05	300	12.75
7	Elevator men	133	4.87	69	2.17	75	2.95
8	Hostlers	171	6.28	138	5.75	162	6.75
9	Motormen	6	.23	3	.01	3	.20
10	Teamsters	1,465	53.74	1,288	58.45	1,463	54.50
11	Truckmen	20	.73	13	.65	13	.55
	MISCELLANEOUS—	3,586	100.00	2,543	100.00	3,340	100.00
1	Apprentices	55	1.53	5	.2	6	.18
2	Bottle washers	1	.03	1	.04	2	.06
3	Bill posters	3	.08	3	.12	3	.09
4	Blacksmiths' helpers	37	1.03	24	.94	32	.96
5	Boys	257	7.17	350	13.77	537	16.08
6	Boys—bell	68	1.9	62	2.44	64	1.92
7	Boys—errand	117	3.26	94	3.70	147	4.4
8	Boys—elevator	22	.61	18	.71	23	.84
9	Bootblacks	4	.11	4	.16	4	.12
10	Cleaners—harness	14	.39	8	.31	26	.78
11	Electrical helpers	3	.08				
12	Factory hands	1,365	38.06	997	39.2	1,291	38.65
13	Foremen	4	.11	1	.04		
14	Foundrymen	2	.6				
15	Furnace tenders	2	.08				
16	Janitors	453	13.61	352	14.22	387	11.55
17	Machinists' helpers	62	1.73	17	.66	36	1.8

Table 6—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Per- centages of each class.	Number.	Per- centages of each class.	Number.	Per- centages of each class.
	MISCELLANEOUS—Concluded.						
18	Meat cutters.....	1	.03	2	.08	2	.06
19	Models.....	7	.2	7	.28	17	.51
20	Office help.....	55	1.53	6	.24	6	.18
21	Oilers.....	10	.28	1	.04	1	.03
22	Plumbers' helpers.....	2	.06	.....	.....	1	.03
23	Steam shovelers.....	3	.08	3	.12	3	.09
24	Stovemmen.....	6	.17	3	.12	5	.02
25	Valet.....	1	.03	1	.04	1	.15
26	Vice hands.....	3	.09	.....	.....	.....	.....
27	Watchmen.....	168	4.68	36	1.41	43	1.29
28	Whitewashers.....	1	.03	1	.04	1	.03
29	Wholesale men.....	34	.95	.....	.....	.....	.....
30	Window washers.....	350	9.76	321	12.62	366	10.96
31	Yardmen.....	95	2.65	83	3.26	89	2.66
32	Mill hands.....	6	.17	6	.24	5	.15
33	MiScellaneous.....	339	9.46	127	5	237	7.1

Females.

Females.....		14,743	.....	13,520 13,112	.....	17,255	.....
Not classified.....		.....	.....	408	.....	.....	.....
CLERICAL—.....		347	100.00	93	100.00	121	100.00
1	Bookkeepers.....	36	10.37	15	16.12	20	16.53
2	Copyists.....	2	.52	1	1.07	1	.83
3	Office work.....	157	45.24	44	47.31	59	48.76
4	Stenographers.....	152	43.82	33	35.5	41	33.88
COMMERCIAL—.....		219	100.00	103	100.00	310	100.00
1	Canvassers.....	16	7.31	14	13.59	41	13.23
2	Cashiers.....	35	15.98	12	11.65	14	4.52
3	Clerks.....	78	35.62	34	33.01	38	12.26
4	Collectors.....	13	5.93	5	4.86	6	1.93
5	Demonstrators.....	7	3.19	4	3.88	155	50.00
6	Saleswomen.....	44	20.08	12	11.65	21	6.77
7	Solicitors.....	4	1.85	3	2.91	8	2.58
8	Typewriters.....	3	1.37	.....	.....	.....	.....
9	Telephone girls.....	19	8.67	19	18.45	27	8.71
DOMESTIC SERVICE—.....		12,857	100.00	11,864	100.00	14,919	100.00
1	Chambermaids.....	970	7.54	392	7.52	1,023	6.86
2	Cooks.....	1,243	9.67	1,137	9.58	1,491	10.00
3	Dining room help.....	346	2.69	310	2.61	460	3.08
4	Day workers.....	637	4.95	481	4.05	506	3.39
5	Domestics.....	573	4.46	532	4.45	626	4.14
6	Dish washers.....	1,035	8.05	970	8.18	1,096	7.35
7	General housework.....	4,414	34.33	4,248	35.81	5,539	37.13
8	Hall girls.....	4	.03	4	.03	6	.04
9	Hotel help.....	30	.23	16	.13	17	.12
10	Housekeepers.....	363	2.82	225	1.9	302	2.03
11	Kitchen help.....	932	7.25	892	7.52	1,054	7.07
12	Laundresses.....	397	3.09	378	3.18	407	3.73
13	Pantry work.....	135	1.05	130	1.1	153	1.03
14	Paint cleaners.....	2	.02	2	.02	2	.02
15	Reception service.....	14	.11	.....	.....	.....	.....
16	Scrubwomen.....	561	4.36	543	4.58	641	4.3

Table 6--Concluded.

Number.	CLASSIFICATION OF OCCUPATION.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Per- centages of each class.	Number.	Per- centages of each class.	Number.	Per- centages of each class.
	DOMESTIC SERVICE-- <i>Concluded.</i>						
17	Second work	420	3.27	357	3.91	473	3.17
18	Waitresses	770	5.99	738	6.22	1,112	7.46
19	Washermomen	11	.9	9	.08	11	.08
	PERSONAL SERVICE--	16	100.00	8	100.00	9	100.00
1	Caterers	1	6.25	1	12.5	1	11.1
2	Companions	14	87.5	6	75.00	7	77.8
3	Lady's maid	1	6.25	1	12.5	1	11.1
	PROFESSIONAL--	255	100.00	200	100.00	262	100.00
1	Artists	1	.39				
2	Nurses	249	97.65	200	100.00	262	100.00
3	Teachers	5	1.96				
	TRADES--	138	100.00	95	100.00	190	100.00
1	Milliners	1	.72	1	1.05		
2	Printers	2	1.45				
3	Seamstresses	133	96.38	94	98.95	190	100.00
4	Tailloresses	2	1.45				
	MISCELLANEOUS--	911	100.00	749	100.00	1,444	100.00
1	Agents					10	.7
2	Apprentices					2	.14
3	Berry pickers	6	.66	6	.8	12	.83
4	Bindery girls	1	.11	1	.13	1	.7
5	Errand girls					1	.7
6	Factory work	812	89.13	697	93.07	1,361	94.25
7	Janitresses	30	3.29	16	2.14	18	1.25
8	Linen room girls	1	.11			1	.07
9	Models	1	.11	1	.13	3	.21
10	Nurse girls	51	5.6	24	3.2	25	1.73
11	Wrappers	3	.33	1	.13	5	.34
12	Miscellaneous	6	.66	3	.4	5	.34

TABLE VII—*Classified Occupations With Percentages.*

SEX AND CLASSES OF OCCUPATIONS.	Number of oc- cupations in each clas.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Per- centages	Number.	Per- centages	Number.	Per- centages
MALES:—	166	30,157	100.00	26,661	100.00	30,242	100.00
Not classified.....				1,262			
Total.....				25,399			
Agricultural.....	6	1,396	4.63	1,210	4.77	1,469	4.86
Clerical.....	11	608	2.02	188	.74	196	.64
Commercial.....	17	1,218	4.04	826	3.25	960	3.18
Domestic service.....	11	4,100	13.59	3,539	13.93	3,796	12.55
Manual labor.....	3	13,840	45.89	13,230	52.09	15,915	52.63
Professional.....	4	23	.08	15	.06	16	.05
Trades.....	70	2,660	8.82	1,618	6.37	1,982	6.55
Transportation.....	11	2,726	9.04	2,230	8.78	2,570	8.5
Miscellaneous.....	33	3,586	11.89	2,543	10.01	3,340	11.04
FEMALES:—	54	14,743	100.00	13,520	100.00	17,255	100.00
Not classified.....				408			
Total.....				13,112			
Clerical.....	4	347	2.35	.93	.71	121	.7
Commercial.....	9	219	1.48	103	.79	310	1.8
Domestic service.....	19	12,857	87.21	11,864	90.48	14,919	86.46
Personal service.....	3	16	.11	8	.06	9	.05
Professional.....	3	255	1.73	200	1.53	262	1.52
Trades.....	4	138	.94	95	.72	190	1.1
Miscellaneous.....	12	911	6.18	749	5.71	1,444	8.37

Referring to the males, it is shown that of the total number, 30,157, or 46 per cent of the applicants for employment were seeking some kind of manual labor, and that 52 per cent succeeded in finding work; this supplied 53 per cent of the call for this class of workmen.

Of those who recorded themselves as seeking work and having a trade, it is found that 70 occupations or crafts are represented, however, they only stand for 8.82 per cent of the whole number.

Of the females it is shown that domestic service, which represent 19 occupations, comprise 87 per cent of the total number (14,743)

applying for employment. Of the total number securing places, this class represents 90.48 per cent, and 86.46 per cent of those seeking this sort of help.

The age periods of the applicants is next shown in the following table:

TABLE 8.—*Age Periods of Applicants, by Classified Occupations.*

Males.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs and over.	Not re-ported.
	Males.....	4,031	10,598	8,912	4,230	1,270	299	817
	North Side Office.....	426	2,417	1,797	544	196	43	65
	South Side Office.....	1,946	3,895	3,635	1,421	676	186	728
	West Side Office.....	983	2,351	1,859	1,513	143	16	23
	Peoria Office.....	676	1,935	1,591	752	255	54	.....
	AGRICULTURAL—.....	178	478	482	150	59	22	27
1	Dairymen.....	.....	3	4	1	.....	.....	.....
2	Farm hands.....	133	411	406	130	54	19	18
3	Florists.....	.....	1	2	2	1	.....	.....
4	Gardeners.....	21	20	10	5	.....	2	.....
5	Stock farm hands.....	24	43	60	12	4	1	9
	CLERICAL—.....	91	237	148	49	63	11	9
1	Bookkeepers.....	3	51	18	7	.....	.....	2
2	Clerks, bill.....	3	11	2	.....	.....	.....	.....
3	Clerks, hotel.....	3	2	14	1	5	.....	.....
4	Clerks, shipping.....	11	37	16	5	.....	1	1
5	Clerks, drug.....	1	7	9	1	.....	.....	1
6	Clerks, dry goods.....	1	3	5	1	.....	.....	.....
7	Clerks, grocery.....	28	13	20	9	.....	.....	.....
8	Clerks, general.....	15	84	58	24	57	10	5
9	Stenographers.....	23	23	3	.....	.....	.....	.....
10	Stockkeepers.....	2	2	1	.....	.....	.....	.....
11	Time keepers.....	1	4	2	1	.....	.....	.....
	COMMERCIAL—.....	864	158	110	64	5	2	15
1	Agents.....	4	4	2	.....	.....	.....	.....
2	Boys, cash.....	55	8	.....	.....	.....	.....	.....
3	Boys, delivery.....	430	.....	.....	.....	.....	.....	.....
4	Boys, factory.....	103	5	.....	.....	.....	.....	.....
5	Boys, office.....	220	.....	.....	.....	.....	.....	.....
6	Canvassers.....	2	8	18	19	1	.....	.....
7	Cashiers.....	.....	1	1	.....	.....	.....	.....
8	Checkers.....	1	2	.....	.....	.....	.....	.....
9	Circular distributors.....	.....	1	.....	.....	.....	.....	.....
10	Collectors.....	2	21	19	15	3	2	6
11	Caterers.....	3	2	.....	.....	.....	.....	.....
12	Draughtsmen.....	.....	1	.....	.....	.....	.....	.....
13	Demonstrators.....	.....	3	8	2	.....	.....	.....
14	Salesmen.....	25	53	42	20	.....	.....	8
15	Salesmen and clerks.....	5	7	3	2	1	.....	.....
16	Solicitors.....	15	41	17	6	.....	.....	1
17	Window dressers.....	.....	1	.....	.....	.....	.....	.....
	DOMESTIC SERVICE—.....	548	1,279	1,097	661	170	121	234
1	Butlers.....	1	4	4	2	.....	.....	.....
2	Carpet layers.....	.....	3	2	2	.....	.....	.....
3	Cooks.....	22	211	205	95	22	11	11
4	Dishwashers.....	118	182	163	96	65	27	26
5	Housemen.....	99	236	331	166	34	71	36

Table 8—Continued.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re-ported.
	DOMESTIC SERVICE—Concluded.							
6	Kitchen work.....	30	46	27	35	26	9	25
7	Pantrymen.....		2					
8	Porters.....	176	318	262	202	16	3	107
9	Stewards.....				1			
10	Waiters.....	102	259	103	62	7		29
11	Pan washers.....		8					
	MANUAL LABOR—	791	4,841	4,848	2,313	622	77	348
1	Coal passers.....		3	2				
2	Laborers.....	683	4,240	4,185	2,146	517	77	233
3	Laborers, railroad.....	103	598	661	167	105		115
	PROFESSIONAL—		10	8	4			1
1	Artists.....		1	1	2			
2	Druggists.....		1					
3	Nurses.....		7	7	2			1
4	Teachers.....		1					
	TRADES—	254	1,040	811	374	110	18	52
1	Bakers.....	9	37	26	10	1		
2	Barbers.....			4				
3	Bartenders.....	4	25	16	5			
4	Bench hands.....	5	17	9	3			
5	Blacksmiths.....	1	56	51	30	11	2	
6	Boiler makers.....		3	5	4			
7	Bookbinders.....	3	1					
8	Boxmakers.....	6	21	13	3			
9	Brassfinishers.....			2				
10	Bricklayers.....		5	2				
11	Bridge builders.....		1					
12	Brush makers.....	1						
13	Butchers.....	3	21	15	6	2		
14	Cabinet makers.....		4	1	3	6	2	
15	Calcininers.....		4	3				
16	Carpenters.....	2	143	135	48	20	2	5
17	Carriage trimmers.....		1	1				
18	Cigar makers.....			1				
19	Coal miners.....		4	11	5			
20	Coopers.....	1	1	5		2		
21	Core makers.....	1	1					
22	Drill press hands.....		26		11			
23	Electricians.....	11	32	13		1		3
24	Engineers.....	2	52	76	54	16	1	3
25	Firemen.....	16	144	69	28			12
26	Glaziers.....			1				
27	Harness makers.....	1	4	9	1			
28	Horseshoers.....			1				
29	Iron workers.....	1	11	8	3	1		1
30	Lathe hands.....	2	15	1	5			
31	Lathers.....	1						
32	Laundrymen.....	2	10	5	3			
33	Machine hands.....	54	49	9	8			3
34	Machinists.....	17	149	131	66	21		11
35	Masons, stone.....		4	1				
36	Metal workers.....	1						
37	Millers.....			1				
38	Millwrights.....		4	6	2			1
39	Molders.....		16	26	6	1	3	4
40	Packers.....	32	50	28	20	3		7
41	Painters.....	28	23	23	22	15	6	5
42	Paper hangers.....		2	2	1			
43	Pattern makers.....	1	2	4	3			
44	Photographers.....		2			1		
45	Piano tuners.....		1					
46	Plumbers.....		3	3	2	1		
47	Polishers, metal.....	3	3	12	2			
48	Polishers (not stated).....		10		2			
49	Plowfitters.....		1					

Table 8—Continued.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
TRADES—Concluded.								
50	Potters.....		3	6	2			
51	Pressers.....		4					
52	Pressmen.....		6	3	1			
53	Printers.....	4	10	3		3		
54	Punch press hands.....	20	9	3				
55	Roofers.....		1					
56	Sawyers.....		3	2				
57	Shoemakers.....	1	4	3	1			
58	Steamfitters.....	9	7	9		2		
59	Stonecutters.....		1			1		
60	Tailors.....	1	1	5	1	1		
61	Telegraphers.....		3	1		1		
62	Tinsmiths.....	9	13	8	2		1	
63	Tool makers.....	1	2		1			
64	Upholsterers.....	1	4	3				
65	Wagon makers.....		2	1				
66	Weighmen.....			1	1			
67	Woodworkers.....		4	24	6	2	1	
68	Woodchoppers.....		5					
69	Weavers.....		2					
TRANSPORTATION—								
		401	1,186	613	315	167	3	41
1	Barnmen.....	35	172	128	42	18	2	17
2	Brakemen.....			4				
3	Carriage washers.....	2	17	8	1			
4	Coachmen.....	4	65	46	13	2		5
5	Conductors.....		9					
6	Drivers.....	96	187	34	24			
7	Elevator men.....	20	67	35	4	5		2
8	Hostlers.....	13	63	59	28	8		
9	Motormen.....			6				
10	Teamsters.....	231	595	287	201	133	1	17
11	Truckmen.....		11	6	2	1		
MISCELLANEOUS—								
		903	1,379	794	300	74	45	91
1	Apprentices.....	44	11					
2	Bill posters.....		2	1				
3	Blacksmith helpers.....	3	20	8	1	2	2	1
4	Boys, bell.....	38	30					
5	Boys, errand.....	90	22					
6	Boys, elevator.....	22						
7	Bootblacks.....	2	2					
8	Cleaners, harness.....		11					
9	Electrician helpers.....	1	2					
10	Factory hands.....	497	494	328	110	15	6	15
11	Foremen.....		2	2				
12	Foundrymen.....		1	1				
13	Furnace tenders.....		1	2				
14	Janitors.....	15	125	158	58	54	34	44
15	Machine helpers.....	11	29	20	2			
16	Meat cutters.....						1	
17	Mill hands.....		3	3				
18	Models.....	1	2		1	1	2	
19	Office help.....	8	34	9	4			
20	Oilers.....	6	3	1				
21	Plumber helpers.....		2					
22	Steam shovelers.....			2	1			
23	Stovemn.....		1	3	2			
24	Valet.....		1					
25	Vise hands.....		1	2				
26	Whitewashers.....			1				
27	Wholesale men.....	7	9	10	8			
28	Window washers.....	44	188	96	2			20
29	Yardmen.....	6	29	36	11	2		11
30	Miscellaneous.....	203	350	89	100			

Table 8—Continued.

Females.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	Females	2,988	4,468	3,056	1,968	733	177	1,353
	North Side Office.....	719	1,484	753	507	127	12	659
	South Side Office.....	1,096	1,636	1,382	895	415	128	487
	West Side Office.....	582	636	511	343	118	11	207
	Peoria Office.....	591	812	41	223	73	26	.....
	CLERICAL—	132	141	49	6	.....	.....	19
1	Bookkeepers.....	8	25	3	.....	.....	.....	.....
2	Copyists	1	1	.....	.....	.....	.....	.....
3	Office work	60	53	27	5	.....	.....	12
4	Stenographers.....	63	62	19	1	.....	.....	7
	COMMERCIAL—	54	69	47	31	.....	.....	18
1	Canvassers .....	.....	.....	6	10	.....	.....	.....
2	Cashiers	5	16	11	.....	.....	.....	3
3	Clerks	20	25	14	4	.....	.....	15
4	Collectors.....	.....	.....	3	10	.....	.....	.....
5	Demonstrators	2	4	1	.....	.....	.....	.....
6	Saleswomen	11	17	10	6	.....	.....	.....
7	Solicitors .....	.....	1	2	1	.....	.....	.....
8	Typewriters	2	1	.....	.....	.....	.....	.....
9	Telephone girls.....	14	5	.....	.....	.....	.....	.....
	DOMESTIC SERVICE—	2,081	3,973	2,810	1,861	711	175	1,248
1	Chambermaids	149	289	284	129	39	6	74
2	Cooks	31	312	346	264	91	25	174
3	Diningroom help.....	95	199	22	10	.....	.....	20
4	Dayworkers .....	.....	65	201	160	66	12	133
5	Domestics	86	204	115	71	38	4	55
6	Dishwashers.....	122	226	242	197	100	44	106
7	General housework	907	1,524	766	580	259	56	322
8	Hall girls.....	1	3	.....	.....	.....	.....	.....
9	Hotel help	1	9	10	5	5	.....	.....
10	Housekeepers	20	119	114	36	25	3	46
11	Kitchen help.....	186	192	241	168	30	18	97
12	Laundresses	18	134	113	73	22	2	35
13	Pantry work	30	52	34	4	2	.....	13
14	Paint cleaners.....	2	.....	.....	.....	.....	.....	.....
15	Reception service	1	4	4	3	.....	.....	2
16	Scrub women	35	88	166	144	32	5	91
17	Second work.....	137	210	49	4	.....	.....	20
18	Waitresses.....	260	341	99	11	.....	.....	60
19	Washerwomen.....	.....	2	5	2	.....	.....	.....
	PERSONAL SERVICE— .....	.....	5	6	2	1	.....	2
1	Caterers .....	.....	1	.....	.....	.....	.....	.....
2	Companions .....	.....	3	6	2	1	.....	2
3	Lady maids.....	.....	1	.....	.....	.....	.....	.....
	PROFESSIONAL—	109	51	37	27	11	3	17
1	Artists .....	.....	1	.....	.....	.....	.....	.....
2	Nurses	109	48	35	26	11	3	17
3	Teachers .....	.....	2	2	1	.....	.....	.....
	TRADES—	28	41	33	15	7	.....	14
1	Milliners .....	.....	1	.....	.....	.....	.....	.....
2	Printers .....	.....	1	1	.....	.....	.....	.....
3	Seamstresses.....	28	38	31	15	7	.....	14
4	Tailloresses .....	.....	1	1	.....	.....	.....	.....

Table 8—Concluded.

No.	Classification of Occupations.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	MISCELLANEOUS—.....	584	188	74	26	3	1	35
1	Berry pickers.....	6	.....	.....	.....	.....	.....	.....
2	Bindery girls.....	.....	1	.....	.....	.....	.....	.....
3	Factory work.....	536	164	60	19	2	.....	31
4	Janitresses.....	.....	9	13	7	1	1	1
5	Linen room girls.....	.....	1	.....	.....	.....	.....	.....
6	Models.....	.....	1	1	.....	.....	.....	.....
7	Nurse girls.....	40	11	.....	.....	.....	.....	.....
8	Wrappers.....	2	1	.....	.....	.....	.....	.....
9	Miscellaneous.....	.....	.....	.....	.....	.....	.....	3

This continues the classification of occupation as in the preceding tables.

The distribution of the applicants of both sexes, under the different age periods, shows no particular variation from last year.

The foregoing is supplemented by a summary of the different classes, which gives in condensed form the age of all applicants with percentages in each age period.

TABLE IX.—*Summary of Age Periods of Applicants by Classified Occupations.*

Sex and Classes of Occupations.	Number of occupations of each class.	Totals.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not reported.
MALES	166	30,157	4,031	10,598	8,912	4,230	1,270	299	817
FEMALES.....	51	14,743	2,988	4,468	3,056	1,968	733	177	1,353
Percentages males.....			13.37	35.14	29.55	14.03	4.21	.99	2.71
Percentages females ..			20.27	30.31	20.73	13.35	4.97	1.20	9.17
MALES—									
Agricultural.....	6	1,396	178	478	482	150	59	22	27
Clerical.....	11	608	91	237	148	49	63	11	9
Commercial	17	1,218	864	158	110	61	5	2	15
Domestic service ..	11	4,100	548	1,269	1,097	661	170	121	234
Manual labor.....	3	13,840	791	4,841	4,848	2,313	622	77	348
Professional	4	23	.....	10	8	4	.....	.....	1
Trades.....	70	2,660	254	1,040	812	374	110	18	52
Transportation	11	2,726	402	1,186	613	315	167	3	40
Miscellaneous.....	33	3,586	903	1,379	794	300	74	45	91
FEMALES—									
Clerical.....	4	347	132	141	49	6	.....	.....	19
Commercial	9	219	54	69	47	31	.....	.....	18
Domestic service ..	19	12,857	2,081	3,973	2,810	1,861	711	173	1,248
Personal service...	3	16	.....	5	6	2	1	.....	2
Professional	3	255	109	51	37	27	11	3	17
Trades.....	4	138	23	41	33	15	7	.....	14
Miscellaneous.....	9	911	584	188	74	26	3	1	35

The largest percentages of both males and females are found in the column of 20 but under 30 years. Considering the males it is shown that 19,510 or 65 per cent of the total are reported between the ages of 20 and 40 years: Of the females the number under the same ages is 7,524 or 51 per cent of the whole number. Between the ages 40 and 50 years the percentages of males and females as to the total of each sex is nearly the same, this is true of the percentages of both sexes between the ages of 50 and 60 years, the showing is four per cent of the males and five per cent of the females. Of those over 60 years, it is gratifying to note that only one per cent of each sex applied for employment.

The next table shows the conjugal relations of the applicants; number of children, members of trade unions; days idle and those willing to accept places outside of the cities:

TABLE X—*Conjugal Conditions, Members of Trades Unions, Days Idle, and Number Willing to Accept Employment Out of City.*

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	Males:—.....30,157	6,328	23,829	6,246	936	44	13,847
	Females:—.....14,743	4,363	10,380	2,668	3	29	2,138
	AGRICULTURAL:—.....	177	1,219	170	4	26	1,203
1	Dairymen.....	3	5	1	.....	2	8
2	Farmers.....	12	89	18	.....	20	97
3	Farm hands.....	119	952	135	4	28	1,029
4	Florists.....	2	4	.....	.....	9	.....
5	Gardners.....	19	39	9	.....	22	41
6	Stock farm hands.....	22	130	7	.....	22	28
	CLERICAL:—.....	172	436	168	2	68	299
1	Bookkeepers.....	22	59	24	.....	51	51
2	Clerks, bill.....	6	10	9	.....	38	6
3	Clerks, hotel.....	7	14	3	.....	34	27
4	Clerks, shipping.....	21	50	19	1	50	35
5	Clerks, drug.....	4	15	6	.....	19	7
6	Clerks, dry goods.....	5	5	6	.....	25	2
7	Clerks, grocery.....	17	54	24	1	42	33
8	Clerks, general.....	78	175	64	.....	96	129
9	Stenographers.....	9	40	7	.....	78	8
10	Stockkeepers.....	1	4	2	.....	36	1
11	Timekeepers.....	2	6	4	.....	50	5
	COMMERCIAL:—.....	165	1,053	176	18	37	207
1	Agents.....	4	6	3	.....	13	8
2	Boys, cash.....	.....	63	.....	.....	21	15
3	Boys, delivery.....	.....	429	.....	16	27	.....
4	Boys, factory.....	.....	108	.....	.....	32	.....
5	Boys, office.....	.....	220	.....	.....	41	32
6	Canvassers.....	22	26	21	.....	24	5
7	Cashiers.....	2	.....	3	.....	20	1
8	Checkers.....	1	2	2	.....	21	3
9	Circular distributors.....	.....	1	.....	.....	.....	.....
10	Collectors.....	36	32	38	1	104	31
11	Caterers.....	3	2	5	.....	9	3
12	Draughtsmen.....	.....	1	.....	.....	14	.....
13	Demonstrators.....	5	8	7	.....	2	8
14	Salesmen.....	52	96	71	1	44	65
15	Salesmen clerks.....	12	6	9	.....	10	6
16	Solicitors.....	27	53	16	.....	51	30
17	Window dressers.....	1	.....	.....	.....	.....	.....
	DOMESTIC SERVICE:—.....	596	3,504	306	62	49	1,716
1	Butlers.....	3	8	2	.....	11	6
2	Carpet layers.....	3	4	2	.....	7	3
3	Cooks.....	225	352	136	3	38	329
4	Dishwashers.....	43	634	16	1	25	322

Table X—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	DOMESTIC SERVICE— <i>Unconcluded.</i>						
5	Housemen.....	106	867	50		161	363
6	Kitchenwork.....	31	167	15	14	42	85
7	Pantrymen.....		2			4	1
8	Porters.....	101	983	65	1	72	301
9	Stewards.....	1				20	1
10	Waiters.....	83	479	20	43	34	300
11	Pan washers.....		8			13	5
	MANUAL LABOR:—	2,647	11,193	3,156	4	39	7,190
1	Coal passers.....		5				
2	Laborers.....	2,539	9,542	3,098	4	38	5,743
3	Laborers, railroad.....	108	1,646	58		43	1,447
	PROFESSIONAL:—	3	20	1	1	19	14
1	Artists.....	2	2	1	1	20	4
2	Druggists.....		1				
3	Nurses.....	1	16			18	10
4	Teachers.....		1				
	TRADES:—	1,076	1,584	1,202	559	50	1,201
1	Bakers.....	27	56	35	21	79	56
2	Barbers.....	1	3			5	2
3	Bartenders.....	18	32	6	1	36	28
4	Bench hands.....	7	27	13	1	13	16
5	Blacksmiths.....	85	66	84	21	52	40
6	Boilermakers.....	9	3		4	25	6
7	Bookbinders.....		4			37	3
8	Boxmakers.....	13	30	20	3	88	19
9	Brassfinishers.....	1	1			14	1
10	Bricklayers.....	2	5	4	3	14	6
11	Bridge builders.....		1		1	14	1
12	Brushmakers.....		1			7	
13	Butchers.....	19	28	30	9	44	20
14	Cabinet makers.....	11	5	21	3	38	1
15	Calceiminers.....	2	4			5	2
16	Candymakers.....		1				1
17	Carpenters.....	201	154	187	106	42	165
18	Carriage trimers.....	3	1	4		14	3
19	Cigarmakers.....		1				
20	Coal miners.....	11	9	14	20	16	20
21	Coopers.....	5	4	10	1	30	2
22	Coremakers.....		2			12	1
23	Drill press hands.....	3	34	8	11	34	20
24	Electrician.....	11	46	13	21	57	32
25	Engineers.....	120	84	115	65	63	114
26	Firemen.....	73	196	74	30	66	172
27	Glaziers.....	1				22	
28	Harnessmakers.....	5	10	11	3	81	4
29	Horseshoers.....	1			1	5	
30	Iron workers.....	11	14	19	10	28	15
31	Lathe hands.....	5	18	4	2	17	7
32	Lathers.....		1			4	1
33	Laundrymen.....	8	12	12	1	48	13
34	Machine hands.....	17	106	36	1	33	45
35	Machinists.....	165	230	199	109	72	148
36	Masons, stone.....	4	1	7	2	5	2
37	Metal workers.....	1					
38	Millers.....	1		3		27	2
39	Millwrights.....	6	6	15		38	7
40	Molders.....	21	35	27	24	39	36

Table X—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	TRADES—Concluded.						
41	Packers.....	54	86	26		47	37
42	Painters.....	56	66	58	32	68	45
43	Paper hangers.....	2	3	8	3	27	2
44	Pattern makers.....	7	3	10	2	46	2
45	Photographers.....	1	2	3		20	
46	Piano tuners.....	1	1		1		1
47	Plumbers.....	2	5	2	1	15	
48	Polishers, metal.....	7	13	13		32	9
49	Polishers (not stated).....	3	9		2	28	4
50	Plowfitters.....	1				7	1
51	Potters.....		11			12	
52	Pressers.....		4			7	1
53	Pressmen.....		9	1	32	18	
54	Printers.....	19	11	5	5	47	9
55	Punch press hands.....	2	30	2		33	17
56	Roofers.....	1					
57	Sawyers.....	2	3	3	1	51	
58	Shoemakers.....	4	5	8	4	29	3
59	Steam fitters.....	11	18	30	4	35	9
60	Stone cutters.....	1	1	2		30	
61	Tailors.....	4	5	5	3	38	4
62	Telegraphers.....	1	3			14	2
63	Tinsmiths.....	15	18	23	10	87	14
64	Toolmakers.....		4			7	
65	Upholsterers.....	4	4	4	2	15	
66	Wagonmakers.....	2	1	1		3	1
67	Weavers.....	1	1				
68	Wood choppers.....		5			6	5
69	Wood workers.....	15	25	26	8	33	21
70	Wagon cleaners.....	2	7			6	3
	TRANSPORTATION:—	774	1,952	469	187	33	923
1	Barnmen.....	94	320	51		37	181
2	Brakemen.....		4			56	3
3	Carriage washers.....	4	24	4	12	44	3
4	Coachmen.....	43	92	15		82	63
5	Conductors.....	3	6	1		94	1
6	Drivers.....	61	280	28	23	64	88
7	Elevatormen.....	31	102	29		97	50
8	Hostlers.....	24	147	25	5	35	48
9	Motormen.....	5	1	11		25	4
10	Teamsters.....	505	960	302	147	16	475
11	Truckmen.....	4	16	3		22	7
	MISCELLANEOUS:—	718	2,868	598	99	74	1,094
1	Apprentices.....		55		2	30	17
2	Bakers helpers.....	2				10	
3	Bottle washer.....		1			4	1
4	Bill posters.....		3		2	3	3
5	Blacksmith helpers.....	8	28	24		38	14
6	Boys, bell.....		68			41	12
7	Boys, general.....		374			62	70
8	Boys, elevator.....		22			3	
9	Boot blacks.....		4			3	4
10	Cleaner, harness.....	4	7	16		29	4
11	Electric helpers.....		3			29	
12	Factory hands.....	275	1,089	184	10	67	269
13	Foremen.....	3	1	2		36	3
14	Foundrymen.....	1	1	4		28	
15	Furnace tenders.....		3			39	1
16	Janitors.....	167	321	131		167	240
17	Machinist helpers.....	7	55	16	2	25	40

Table X—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	MISCELLANEOUS—Continued.						
18	Meat cutters.....		1				
19	Mill hand.....		6				
20	Models.....		7	1		19	
21	Office help.....	4	51	4		35	14
22	Oilers.....	4	6	2		37	7
23	Plumber helpers.....		2			15	1
24	Steam shovelers.....	2	1				
25	Stovemmen.....	1	5			12	
26	Valet.....		1			17	1
27	Vice hands.....	3		6		4	1
28	Watchmen.....	90	88	40	68	153	28
29	Whitewashers.....		1			120	
30	Wholesalermen.....	15	19	29	1	20	16
31	Window washers.....	54	296	57	1	18	17
32	Yardmen.....	17	78	19		10	18
33	Not classified.....	60	271	63	13		190
	Females:—.....14,743	4,363	10,380	2,688	3	29	3,188
	CLERICAL:—.....	53	294	26		65	49
1	Bookkeepers.....	7	29	4		48	3
2	Copyists.....	1	1	3		7	
3	Office work.....	17	140	11		73	28
4	Stenographers.....	28	124	8		62	18
	COMMERCIAL:—.....	47	172	39		57	38
1	Canvassers.....	12	4	7		7	1
2	Cashiers.....	9	26	5		12	10
3	Clerks.....	13	65	7		132	19
4	Collectors.....	5	8	4		11	3
5	Demonstrators.....	1	6	1		7	1
9	Saleswomen.....	3	41	11		11	1
7	Solicitors.....	3		3		6	2
8	Typewriters.....	1	2	1		14	1
6	Telephone girls.....		19				
	DOMESTIC SERVICE:—.....	4,065	8,792	2,431	2	28	1,961
1	Chambermaids.....	323	647	169		24	246
2	Cooks.....	559	694	219		43	324
3	Dining room help.....	40	306	17		16	15
4	Day workers.....	500	137	419		13	19
5	Domestics.....	155	418	77		15	69
6	Dishwashers.....	403	632	270		20	221
7	General housework.....	879	3,555	326		28	311
8	Hall girls.....		4				
9	Hotel help.....	7	23	3			
10	Housekeepers.....	175	188	125		54	123
11	Kitchen help.....	337	595	260	2	23	186
12	Laundresses.....	197	200	100		19	44
13	Pantry work.....	28	107	26		12	42
14	Paint cleaners.....		2			21	
15	Reception service.....	3	11	2		55	
16	Scrub women.....	291	280	263		12	67
17	Second work.....	24	396	87		32	70
18	Waitresses.....	146	624	57		49	224
19	Washerwomen.....	8	3	11			

Table X—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single	Number of dependent children.			
	PERSONAL SERVICE:—	6	10	4		29	6
1	Caterers	1		3			
2	Companions	5	9	1		29	6
3	Lady's maids		1				
	PROFESSIONAL:—	47	208	44		24	49
1	Artists		1			40	1
2	Nurses	45	204	43		25	48
3	Teachers	2	3	1		15	
	TRADES:—	43	95	46		42	18
1	Milliners	1		1		7	
2	Printers	1	1	1		15	
3	Seamstresses	41	92	44		43	18
4	Tailloresses		2				
	MISCELLANEOUS:—	102	809	78	1	38	17
1	Berry pickers		6			8	6
2	Bindery girls		1			5	
3	Factory work	84	728	56	1	39	11
4	Janitresses	12	18	22		40	
5	Linen room girls		1				
6	Models		1				
7	Nurse girls		51				
8	Wrappers		3			14	
9	Not classified	6					

A study of this statement in detail will reveal some of the social and other conditions of this large body of people who have applied to these offices for employment during the year.

To bring the matter to attention in a more abridged form the following table is presented:

TABLE 11—*Summary of the Conjugal Conditions, Members of Trade Unions, Days Idle and Number Willing to Accept Work Out of the City, with Percentages.*

Sex and Classification of Occupations.	Number of occupations in each class.	Totals.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average number of days idle.	Number willing to accept work out of city.
			Number married.	Number single.	Number of dependent children.			
Males.....	166	30,157	6,328	23,829	6,246	936	44	13,847
Females.....	51	14,743	4,363	10,380	2,668	3	.....	2,138
Percentages and avgs, males...	.....	.....	20.98	79.02	.....	.....	.....	45.97
Percentages and avgs, females	.....	.....	29.59	70.41	§ each	.....	29	14.5
MALES—								
Agricultural.....	6	1,396	177	1,219	170	4	26	1,203
Clerical.....	11	608	172	436	168	2	68	299
Commercial.....	17	1,218	165	1,053	175	18	37	207
Domestic service.....	11	4,100	596	3,504	306	62	49	1,716
Manual labor.....	3	13,840	2,647	11,193	3,156	4	39	7,190
Professional.....	4	23	3	20	1	1	19	14
Trades.....	70	2,660	1,076	1,584	1,202	559	50	1,201
Transportation.....	11	2,726	774	1,952	469	187	16	923
Miscellaneous.....	33	3,586	718	2,868	598	99	74	1,094
FEMALES—								
Clerical.....	4	347	53	294	26	.....	65	49
Commercial.....	9	219	47	172	39	.....	57	38
Domestic service.....	19	12,857	4,065	8,792	2,431	2	28	1,961
Personal service.....	3	16	6	10	4	.....	29	6
Professional.....	3	255	47	208	44	.....	24	49
Trades.....	4	138	43	95	46	.....	42	18
Miscellaneous.....	9	911	102	809	78	1	38	17

Of the 30,157 males, 6,328 or 21 per cent were married, with 6,246 children dependent, being a small fraction less than one child to each male; only 936 or 3 per cent were members of trade unions an average of 44 days idleness is reported for each; 13,847 or 46 per cent

were willing to accept of work outside of the cities. Referring to the females, of the 14,743 applying for work, 4,363 or 30 per cent were married, having 2,668 children dependent, or 61 per cent having one child each. Only three were members of trade unions, and only 15 per cent were willing to go out of the cities for work.

WAGES PAID.

The two following tables present the average wages paid to those furnished employment. Table 12 gives the wages in Chicago and Table 13 the wages in Peoria:

TABLE 12.—*Average Wages Paid Applicants to Whom Employment was Furnished by the Three Chicago Offices.*

Males.

CHARACTER OF OCCUPATION.	AVERAGE WAGES.		
	Per Day.	Per Week.	Per Month.
Agents.....	Commission		
Artists.....		\$18 00	
Bakers.....	\$2 50	\$10 00 to 16 00	
Barbers.....		9 00 to 15 00	
Bartenders.....		15 00	\$50 00
Barnmen.....		10 00 to 16 00	
Billposters.....	2 50		
Blacksmiths.....	3 25		
Bookkeepers.....		12 00 to 18 00	
Bootblacks.....		7 00 to 10 00	
Boxmakers.....	2 75		
Boys.....		3 00 to 6 00	
Boys—bell.....			\$15 00 to 25 00
Boys—cash.....		3 50 to 5 00	
Boys—delivery.....		4 00 to 6 00	
Boys—errand.....		3 00 to 5 00	
Boys—office.....		4 00 to 7 00	
Bricklayers.....	4 00		
Butchers.....		12 00 to 15 00	
Butlers.....		12 00 to 16 00	
Cabinet makers.....	3 50		
Calsominers.....	2 75		
Canvassers.....	Commission		
Carpet layers.....	3 00		
Carpenters.....	\$3 00 to 4 00		
Cashiers.....		10 00 to 15 00	
Caterers.....			50 00 to 75 00
Cleaners—harness*.....			25 00 to 30 00
Cleaners—wagon*.....			25 00 to 30 00
Clerks—drug.....		12 00 to 16 00	
Clerks—grocery.....		10 00 to 14 00	
Clerks—office.....		10 00 to 16 00	
Clerks—shipping.....		10 00 to 15 00	
Clerks—general.....		10 00 to 15 00	
Coachmen*.....			40 00 to 60 00
Collectors.....		10 00 to 15 00	
Cooks*.....		8 00 to 15 00	40 00 to 70 00
Coopers.....	3 00		
Demonstrators.....		12 00 to 15 00	
Dishwashers*.....		5 00 to 9 00	16 00 to 25 00
Electricians.....	3 50 to 4 00	12 00 to 15 00	
Engineers.....			50 00 to 75 00
Factory hands.....		8 00 to 12 00	
Farm hands*.....			20 00 to 35 00
Firemen.....	2 00 to 2 50		

Table 12—Continued.

CHARACTER OF OCCUPATION.	AVERAGE WAGES.		
	Per Day.	Per Week.	Per Month.
Foremen			\$85 00
Gardeners*			\$40 00 to 60 00
Glaziers	\$2 50		
Harness makers	\$2 75 to 3 25		
Horseshoers	4 00		
Hostlers*			20 00 to 35 00
Housemen*			15 00 to 30 00
Iron workers	4 00		
Janitors			50 00 to 75 00
Kitchen work*			25 00 to 35 00
Laborers	1 50 to 2 25		
Laborers—railroad	2 00 to 2 50		
Laundrymen		\$12 00 to \$15 00	
Machine hands	2 00 to 2 50		
Machinists	3 00 to 3 50		
Millwrights	4 00		
Models	30 to 40c hour		
Moulders	3 50 to 4 00		
Nurses*		12 00 to 13 00	
Packers		10 00 to 14 00	
Painters	3 00 to 3 50		
Paper hangers	Piece work		
Pattern makers	3 00 to 3 50		
Photographers	15 00		
Plumbers	4 00		
Porters*		8 00 to 15 00	
Pressmen	3 50		
Printers	4 00		
Salesmen	12 00 to 16 00		
Shoemakers	2 50		
Solicitors	Commission		
Steamfitters	4 00		
Stenographers		12 00 to 15 00	
Stewards*			60 00
Stockmen*			20 00 to 30 00
Stove mounters	2 75		
Tailors	2 50 to 3 00		
Teamsters		10 00 to 14 00	
Telegraphers			60 00
Tinsmiths	2 50 to 3 25		
Upholsterers	3 00		
Valets*			50 00
Wagon makers	3 00		
Waiters*		8 00 to 12 00	
Watchmen			40 00 to 50 00
Weavers	3 00		
Window washers		10 00 to 12 00	
Wood choppers*	1 75 to 2 00		
Wood workers	2 75 to 3 00		
Yardmen*			30 00 to 40 00

* Room and board.

Females.

Artists		\$12 00	
Agents	Commission		
Bookkeepers		\$8 00 to 12 00	
Bindery girls		8 00	
Cashiers		8 00 to 12 00	
Clerks		7 00 to 12 00	
Caterers*		15 00	
Chambermaids*		3 00 to 5 50	
Companions*		4 00 to 6 00	
Collectors		6 00 to 10 00	
Cooks*		5 00 to 15 00	
Copyists		10 00	
Day workers	\$1 25 to \$1 75		
Demonstrators		10 00	
Dishwashers*		5 00 to 7 00	
Factory work		5 00 to 8 00	
General housework*		3 00 to 7 00	

Table 12—Concluded.

CHARACTER OF OCCUPATION.	AVERAGE WAGES.		
	Per Day.	Per Week.	Per Month.
Hall girls*.....			\$20 00 to \$30 00
Housekeepers*.....		\$4 00 to \$10 00	
Janitress.....		7 00 to 12 00	
Kitchen help*.....		4 00 to 8 00	
Lady's maid*.....		6 00	
Laundresses*.....		5 00 to 7 00	
Linenroom girls*.....			30 00
Models.....	25c per hour		
Nurses*.....		5 00 to 10 00	
Office work.....		8 00 to 12 00	
Pantry work*.....		4 00 to 7 00	
Printers.....		10 00 to 14 00	
Reception service.....		8 00 to 12 00	
Saleswomen.....		8 00 to 10 00	
Scrubwomen.....	\$1 25 to \$1 75		
Seamstresses*.....		8 00 to 12 00	
Second work.....		3 50 to 6 00	
Stenographers.....		8 00 to 12 00	
Solicitors.....	Commission		
Waitresses*.....		7 00 to 9 00	

* Room and board.

TABLE 13.—Average Wages Paid Applicants to Whom Employment was Furnished by Peoria Office.

Males.

CHARACTER OF OCCUPATIONS.	AVERAGE WAGES.		
	Per Day.	Per Week.	Per Month.
Agents.....	Commission		
Apprentices.....		\$3 00 to 4 00	
Bakers.....		9 00 to 15 00	
Barbers.....		10 50	
Barnmen.....			\$18 00 to 20 00
Bench hands.....	\$2 00		
Blacksmiths.....	2 25		
Bookkeepers.....		12 00	
Boxmakers.....	1 60		
Boys.....		3 50	
Boys—bell.....		3 00	
Boys—cash.....		3 25	
Boys—delivery.....		4 25	
Boys—elevator.....		4 00	
Boys—errand.....		2 50	
Boys—factory.....		4 50	
Boys—office.....		3 00	
Boys—wrappers.....		3 50	
Butchers.....		12 00	
Cabinetmakers.....	3 50		
Canvassers.....	Commission		
Carpenters.....	3 00		
Carriage trimmers.....	2 00		
Clerks—drug.....		12 00	
Clerks—dry goods.....		10 00	
Clerks—grocery.....		8 25	
Clerks—hotel.....			*30 00
Clerks—shipping.....		9 25	
Clerks—stock.....		9 00	
Clerks and salesmen.....		8 00	
Clerks not stated.....		7 75	
Coachmen.....			*20 00
Coal miners.....	4 00		

Table 13—Continued.

CHARACTER OF OCCUPATIONS.	AVERAGE WAGES.		
	Per Day.	Per Week.	Per Month.
Collectors		\$8 75	
Cooks			*\$35 00
Conductors—street car		11 50	
Dairymen			*21 00
Dishwashers			*18 00
Drill pressmen	\$2 00		
Drivers		9 00	
Electricians	3 00		
Engineers—stationary			60 00
Factory hands	1 25		
Farm hands			*20 00
Firemen—stationary	1 50		
Florists	*1 50		
Gardeners			*25 00
Grinders and polishers	2 00		
Harnessmakers	2 50		
Hostlers			*20 00
Housemen			*18 00
Janitors		8 50	
Kitchen			*18 00
Laborers	1 70		
Laborers—railroad	1 75		
Machinists	2 50		
Meat cutters		10 50	
Mill hands	1 60		
Millwrights	3 00		
Molders	3 00		
Nurses		10 00	
Office		9 00	
Packers		9 00	
Painters	2 50		
Panwashers			*18 00
Patternmakers	3 50		
Plow fitters	2 00		
Potters	2 60		
Porters		5 00	
Printers		14 00	
Salesmen	Commission		
Shovelers—steam	2 00		
Shop work	1 50		
Solicitors	Commission		
Steamfitters	3 00		
Stenographers			25 00
Stonemasons	3 50		
Stovemn	1 75		
Teamsters		9 00	
Tinners	2 25		
Truckmen	1 50		
Upholsterers	2 00		
Waiters		*7 00	
Watchmen		9 00	
Woodworkers	3 00		
Yardmen			*18 00

Females.

Bookkeepers			\$40 00 to 50 00
Canvassers	Commission		
Clerks		\$3 00 to 10 00	
Chambermaids			*\$14 00
Collectors		5 00	
Companions		5 00	
Cooks			
Cooks—day	\$1 50		
Demonstrators		6 00	
Dining room girls		*3 75	
Dishwashers		*3 00	
Domestics		*3 50	
Factory		4 00	
General housework		*3 75	
Housekeepers		*4 00	

Table 13—Concluded.

CHARACTER OF OCCUPATIONS.	AVERAGE WAGES.		
	Per Day.	Per Week.	Per Month.
Hotel		*\$3 25	
Janitresses		7 50	
Kitchen		*3 75	
Laundresses		4 50	
Nurses		*5 00	
Nurse girls		*1 50	
Office		4 00	
Pantry			\$14 00
Saleswomen		3 50	
Scrubwomen	\$1 50		
Seamstresses		5 00	
Second work		*3 50	
Stenographers		8 50	
Telephone girls		4 00	
Vegetable cleaners			14 00
Washerwomen	1 50		

* Room and board.

By comparing the wages for males, here reported, with those of last year some advance will be found in several of the occupations, while no decrease is shown in any. This is also true as to females.

NATIONALITY.

The next presentation is the nationality of the applicants for employment:

TABLE 14—*Nationality of all*

Number.	Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
MALES—		18,045	141	217	363	316	634	167	3,643
1	North Side Office	3,183	4	14	30	86	123	15	787
2	South Side Office	6,328	90	111	274	153	309	123	1,636
3	West Side Office	3,821	44	88	46	68	148	17	958
4	Peoria Office	4,713	3	4	13	9	54	12	262
AGRICULTURAL—		748	5	12	25	33	48	2	137
1	Dairymen	5							3
2	Farmers	40			4	10	2		11
3	Farm hands	607	5	10	20	23	38	1	95
4	Florists	4							2
5	Gardeners	24					5		15
6	Stock farm hands	68		2	1		3	1	11
CLERICAL—		376		2	13	1	16	6	57
1	Bookkeepers	51			4		4	1	6
2	Clerks, bill	14					1		1
3	Clerks, hotel	18			2		1		3
4	Clerks, shipping	53					2		5
5	Clerks, drug	6					1	1	3
6	Clerks, dry goods	8							1
7	Clerks, grocery	58							4
8	Clerks, general	122		2	4		3	4	31
9	Stenographers	36			3		4		2
10	Stockkeepers	3							1
11	Timekeepers	7				1			
COMMERCIAL—		918		8	15	4	24	1	88
1	Agents	5			1		3		
2	Boys, cash	35		2	1		3		5
3	Boys, delivery	353		4	7	3	3		22
4	Boys, factory	108							
5	Boys, office	142			3		3		23
6	Canvassers	43		1			2		
7	Cashiers	2							
8	Checkers	3							
9	Circular distributors	1							
10	Collectors	51			1		3		5
11	Caterers	5							
12	Draughtsmen	1					1		
13	Demonstrators	9							2
14	Salesmen	101		1	1	1	2	1	20
15	Salesmen and clerks	18							
16	Solicitors	60			1		4		11
17	Window dressers	1							
DOMESTIC SERVICE—		2,028	26	49	18	44	72	25	584
1	Butlers	5					1	1	
2	Carpenters	3						1	2
3	Cooks	291	4		2	2	11	14	90
4	Dishwashers	178	19	42	4	21	4	3	75
5	Housemen	451	1		1	9	23		189
6	Kitchenwork	107		2		4	7	3	32
7	Pantrymen	1							
8	Porters	666	2	3	4	7	10	1	125
9	Stewards	1							
10	Waiters	318		2	7	1	16	2	70
11	Panwashers	7							1

Table 14—

Number.	Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	MANUAL LABOR—	8 465	70	75	220	106	247	102	1,707
1	Coal passers	2							2
2	Laborers	7,426	58	66	205	87	170	89	1,491
3	Laborers, R. R.	1,037	17	9	15	19	77	13	214
	PROFESSIONAL—	14					2	1	3
1	Artists	2					2		
2	Druggists	1							
3	Nurses	10						1	3
4	Teachers	1							
	TRADES—	1,570	25	28	32	22	74	17	379
1	Bakers	39	6	1			1	2	17
2	Barbers	3							
3	Bartenders	20		2	2		1		14
4	Bench hands	29					1		4
5	Blacksmiths	65	1		3	2	3		25
6	Boilermakers	8							2
7	Bookbinders	3							
8	Boxmakers	21	1		2				4
9	Brass finishers	1							1
10	Brick layers	1							
11	Bridge builders	1							
12	Brushmakers	1							
13	Butchers	23		1	1		5		8
14	Cabinetmakers	7	1						6
15	Calsominers	2							2
16	Candymakers	1							
17	Carpenters	152	4	5	4	5	17	2	58
18	Carriage trimmers	3							
19	Cigarmakers	1							2
20	Coal miners	14					2		2
21	Coopers	8							1
22	Coremakers	2							
23	Drill press hands	26	1	1			1		5
24	Electricians	37		1			2	1	9
25	Engineers	130			2		11	1	26
26	Firemen	172	1		3	3	6	1	35
27	Glaziers	1							
28	Harnessmakers	9							4
29	Horseshoers								
30	Ironworkers	17		1					3
31	Lathe hands	21							1
32	Lathers	1							
33	Laundrymen	12						1	3
34	Machine hands	77	3	4	1	1	1		18
35	Machinists	218	5	3	10	7	6	5	66
36	Masons, stone	4					1		
37	Metalworkers	1							
38	Millers	1							
39	Millwrights	7					1		2
40	Molders	38	2	2			3		6
41	Packers	100			1	1	5	1	10
42	Painters	81			2	1	5	1	12
43	Paper hangers	3							2
44	Patternmakers	8				1			1
45	Photographers	2							
46	Piano tuners	1							
47	Plumbers	4							
48	Polishers, metal	13							1
49	Polishers, not stated	12							
50	Plowfitters	1							
51	Potters	11							
52	Pressers	4							
53	Pressmen	7							2
54	Printers	17					1		

Table XIV—

Number.	Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
55	Punch press hands.....	23		1	1				5
56	Roofers.....								1
57	Sawyers.....	4		1					
58	Shoemakers.....	6							2
59	Steamfitters.....	22							2
60	Stone cutters.....								2
61	Tailors.....	5		1					
62	Telegraphers.....	4							
63	Tinsmiths.....	21							10
64	Toolmakers.....	3							1
65	Upholsterers.....	5						1	
66	Wagon makers.....	3							
67	Wagon cleaners.....	3					1		2
68	Weavers.....								2
69	Wood choppers.....	5							
70	Woodworkers.....	27		3		1		1	2
	TRANSPORTATION—.....	1,631	4	27	17	37	69	5	320
1	Barnmen.....	144	2	2	12	10	33		56
2	Brakemen.....	4							
3	Carriage washers.....	16					2	1	2
4	Coachmen.....	68	1	1		2	4		21
5	Conductors.....	8							1
6	Drivers.....	242	1	1		2	5		51
7	Elevatormen.....	103				1	3		17
8	Hostlers.....	93			3	3	3	2	16
9	Motormen.....	4							1
10	Teamsters.....	929		23	2	18	19	2	154
11	Truckmen.....	17				1			
	MISCELLANEOUS—.....	2,303	8	21	24	68	83	9	341
1	Apprentices.....	43	2	1					3
2	Baker's helpers.....	1							1
3	Bottle washers.....	1							
4	Bill posters.....	2							
5	Blacksmith helpers.....	17				1			4
6	Boys, bell.....	56			1		1		2
7	Boys, general.....	117		3	4	2	9	1	28
8	Boys, errand.....	100					4		14
9	Bootblacks.....	2							1
10	Cleaners, harness.....	9							2
11	Electric helpers.....	3							
12	Factory hands.....	947	3	6	8	29	39	4	127
13	Foremen.....	3							1
14	Foundrymen.....	2							
15	Furnace tenders.....	3							
16	Janitors.....	248	1	1	2	21	9		85
17	Meat cutters.....	1							
18	Mill hands.....	6							
19	Models.....	4							4
20	Office help.....	49						1	2
21	Oilers.....	6							
22	Plumber's helpers.....	2							
23	Machinist helpers.....	45			2		1		12
24	Steam shovelers.....	3							
25	Stovemmen.....	5							1
26	Valets.....							1	
27	Vise hands.....	2							1
28	Watchmen.....	105			3	1	6	1	20
29	Whitewashers.....				1				
30	Wholesalemen.....	18			1	2			4
31	Window washers.....	198	1	6		8	5		29
32	Yardmen.....	69		2		3			7
33	Not classified.....	236	1	1	2	1	7	1	3

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
			1	1								33	55
												1	56
												5	57
1												9	58
5												29	59
												2	60
1												9	61
												4	62
1			1									33	63
												4	64
1												3	65
									1			3	66
3												9	67
												2	68
2								3		1		5	69
												40	70
181	2	59	8	18	15	30	115	2	4	77	104	2,726	
45		21	3	1	7	6	36		3	12	21	414	1
												4	2
1				1			4					28	3
9		3			4	1	8			5	8	135	4
												9	5
11	2	4	1			11	3				10	341	6
3				1		2	3				1	133	7
15		6	2	5		2	6		1	9	5	171	8
							1					6	9
106		23	2	10	4	8	57	2		51	55	1,465	10
1		1										20	11
185	27	52	54	53	7	40	94	20	3	93	101	3,586	
		1					2	1	1		1	55	1
												2	2
												1	3
1												3	4
	1	2					4	3		2	3	37	5
6				1		1	1				1	68	6
27	2	4	3	6	3	3	7			25	24	265	7
11		2	3								5	132	8
1												4	9
2	1											14	10
												3	11
59	11	14	16	23		10	37		1	15	16	1,365	12
												4	13
												2	14
												3	15
45	1	13	12	7	1	1	19	14	2	3	13	485	16
												1	17
												6	18
1				1								7	19
			1			1	2	1			2	55	20
												10	21
1		1										2	22
												62	23
												3	24
												6	25
												1	26
												3	27
12	2	2		3		3	10			1	9	168	28
												1	29
1		2	3			4						34	30
13	2	9	6	6	3	1	13			24	24	350	31
3		2		2						6		95	32
2	8			4		10	2	4		17	2	336	33

Table 14—

Number.	Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	FEMALES—	6,435	18	111	202	130	451	96	1,855
1	North Side Office.....	917	...	37	30	57	113	33	734
2	South Side Office.....	2,107	18	55	143	56	316	41	756
3	West Side Office.....	1,885	...	19	21	12	17	13	317
4	Peoria.....	2,026	...	...	8	5	5	9	48
	CLERICAL—	269	...	...	1	3	5	2	19
1	Bookkeepers.....	32	...	...	...	...	1	...	2
2	Copyists.....	1	...	...	...	...	...	...	...
3	Office work.....	104	...	...	...	2	3	2	13
4	Stenographers.....	132	...	...	1	1	1	...	4
	COMMERCIAL—	180	...	...	3	...	3	1	14
1	Canvassers.....	16	...	...	...	...	...	...	...
2	Cashiers.....	28	...	...	1	...	...	1	2
3	Clerks.....	48	...	...	1	...	3	...	12
4	Collectors.....	12	...	...	1	...	...	...	...
5	Demonstrators.....	7	...	...	...	...	...	...	...
6	Saleswomen.....	43	...	...	...	...	...	...	...
7	Solicitors.....	4	...	...	...	...	...	...	...
8	Typewriters.....	3	...	...	...	...	...	...	...
9	Telephone girls.....	19	...	...	...	...	...	...	...
	DOMESTIC SERVICE—	5,136	18	88	186	124	420	77	1,682
1	Chambermaids.....	411	...	13	20	12	27	8	123
2	Cooks.....	450	...	19	25	22	39	5	151
3	Diningroom help.....	201	...	...	5	2	5	4	20
4	Dayworkers.....	207	...	5	4	6	7	...	84
5	Domestics.....	296	...	4	2	6	6	3	98
6	Dishwashers.....	344	4	12	18	18	29	4	140
7	General housework.....	1,708	8	23	53	41	206	34	642
8	Hall girls.....	2	...	...	...	...	...	...	...
9	Hotel help.....	30	...	...	...	...	...	...	...
10	Housekeepers.....	244	...	...	1	1	7	...	28
11	Kitchen help.....	285	2	7	27	6	30	2	124
12	Laundresses.....	143	...	3	6	1	18	8	43
13	Pantry work.....	55	1	2	7	...	8	...	14
14	Paint cleaners.....	1	...	...	...	...	...	...	1
15	Reception service.....	10	...	...	...	...	1	1	2
16	Scrub women.....	154	3	6	5	7	14	1	72
17	Second work.....	208	...	...	2	...	5	3	37
18	Waitresses.....	363	...	2	9	4	18	4	91
19	Washerwomen.....	10	...	...	...	...	...	...	...
	PERSONAL SERVICE—	13	...	...	...	...	2	1	...
1	Caterers.....	1	...	...	...	...	...	...	...
2	Companions.....	11	...	...	...	...	2	1	...
3	Lady's maid.....	1	...	...	...	...	...	...	...
	PROFESSIONAL—	108	...	1	3	3	13	5	46
1	Artists.....	1	...	...	...	...	...	...	...
2	Nurses.....	103	...	1	3	3	13	4	46
3	Teachers.....	4	...	...	...	...	...	1	...

Concluded.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
9		2					4			6	1	138	1
												1	2
												2	3
9		2					4			6	1	133	4
												2	
45	2	7	10	2	3	1	37	2			31	911	6
												1	1
												1	2
45	2	7	10	2	3	1	35	2			31	812	3
							2					30	4
												1	5
												1	6
												51	7
												3	8
												6	9

Here is shown 18 nationalities of the male applicants, of the total 30,157, there were 747 classed under miscellaneous and 702 not reported, deducting these we have 28,708 divided among the 18 nationalities.

The native American leads all the rest, being 63 per cent of the total number. The Germans are the next highest, but only 13 per cent; this accounts for 76 per cent, and leaves 24 per cent distributed among the other 16 classes. Of the females 316 are classed as miscellaneous and 538 not reported, deducting these leaves 13,889 dis-

TABLE 15.—*Summary of the Nationality of all Ap-*

Sex and Classification of Occupations.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
Males.....	18,045	141	217	363	316	634	167	3,643
Females.....	6,435	18	111	202	130	451	96	1,855
Percentages—Males.....	62.86	.49	.76	1.26	1.1	2.21	.58	12.69
Percentages—Females.....	46.33	.13	.8	1.46	.94	3.25	.69	13.36
MALES—								
Agricultural.....	748	5	12	25	33	48	2	137
Clerical.....	376	.....	2	13	1	16	6	57
Commercial.....	918	.....	8	15	4	24	1	88
Domestic service.....	2,028	26	49	18	44	72	25	584
Manual labor.....	8,465	70	75	220	106	247	102	1,707
Professional.....	14	.....	.....	.....	.....	2	1	3
Trades.....	1,570	25	28	32	22	74	17	379
Transportation.....	1,623	7	22	16	37	69	4	347
Miscellaneous.....	2,303	8	21	24	68	83	9	341
FEMALES—								
Clerical.....	269	.....	.....	1	3	5	2	19
Commercial.....	180	.....	.....	3	.....	3	1	14
Domestic service.....	5,136	18	58	186	124	420	77	1,682
Personal service.....	13	.....	.....	.....	.....	2	1	.....
Professional.....	108	.....	1	3	3	13	5	46
Trades.....	85	.....	6	3	.....	7	8	7
Miscellaneous.....	644	.....	16	6	.....	1	2	63

tributed among the 18 different nationalities, of which 6,435 or 46 per cent were Americans; the Irish, Germans and Swedes follow next in point of numbers. Those classed under the grouping "Domestic Service," whose nationality is given constitutes 87 per cent of the total; of which 42 per cent were Americans; 22 per cent Irish; 14 per cent Germans and 9 per cent Swedes. The Americans also lead in numbers all the the other occupations

A summary of the nationality of both sexes, in the classified industries, is presented as the final exhibit:

plicants for Employment, by Classified Occupations.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.
2,102	415	488	273	345	114	212	1,058	133	42	747	702	30,157
2,753	6	350	104	38	72	84	1,121	45	18	316	538	14,743
7.32	1.45	1.7	.95	1.2	.4	.73	3.69	.46	.15	.....	.....	100.00
19.82	.04	2.52	.75	.27	.52	.6	8.07	.32	.13	.....	.....	100.00
76	3	32	15	15	13	9	47	22	13	81	60	1,396
29	1	4	.....	6	4	6	25	2	.....	19	41	608
92	.....	6	5	8	1	2	15	.....	.....	12	19	1,218
329	15	94	35	33	44	20	154	40	.....	260	230	4,100
1,033	371	190	160	179	11	102	448	51	20	162	111	13,840
2	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	23
154	5	39	13	36	9	35	91	34	7	39	40	2,660
202	.....	71	.....	15	25	.....	184	.....	.....	81	100	2,726
185	27	52	54	53	7	40	94	20	3	93	101	3,583
22	.....	2	.....	3	.....	5	6	.....	1	1	11	347
9	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	4	219
2,656	5	329	92	38	70	78	1,043	42	18	309	446	12,857
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
32	.....	10	2	.....	.....	.....	26	1	.....	.....	5	255
9	.....	2	.....	.....	.....	.....	4	.....	.....	6	1	133
45	2	7	10	2	2	1	37	2	.....	.....	71	911

Referring to the males it has already been noticed that the number classed as Americans applying for employment largely exceeds all others, in all branches of the industries represented: Combining the four nationalities, Americans, Germans, Irish and Swedes, it is found that these represent 87 per cent of the total number. The same is true as to the females, these four nationalities constitute 88 per cent of the whole number.

The reports of the several superintendents follow:

REPORTS
OF THE
SUPERINTENDENTS

REPORT OF THE CHICAGO NORTH SIDE ILLINOIS FREE EMPLOYMENT OFFICE, 1902. 234 CHICAGO AVENUE.

(D. M. BROTHERS, Superintendent, Chicago.)

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section 6 of the law establishing free employment offices, I beg to submit the fourth annual report of the business of this office, covering the period from Oct. 1, 1901, to Sept. 30, 1902, together with the expense account for the same period.

The value of these offices must be apparent to all who observe the commercial and laboring interests of the State, as the details of the reports for the year will demonstrate. It is a continuous task on time and patience to look after the supplying of the demands, both for positions to be secured and help wanted; the applications for mechanical and the higher classes of labor have increased steadily.

This office, however, is still laboring under a disadvantage in that the appropriation is not sufficient to provide us with room to properly conduct the work of the female department. We should have extra rooms for waiting-room and for employers, so that employers could converse with domestics; this would avoid others overhearing necessary private conversation. The business of both departments has entirely outgrown the present quarters, and it is important that larger and more commodious rooms should be obtained.

It is found that the best results from advertising have been attained through the placing of cards in street cars. However, the present appropriation will not warrant the continuing of these cards more than three months in the year. If the appropriation for advertising was increased, much better results might be obtained; these advertisements could be continued through the entire year on all surface and elevated cars.

Respectfully submitted,

D. M. BROTHERS, *Superintendent.*

Chicago, Ill.

Statement of the Expenses of the North Side Illinois Free Employment Office, from Oct. 1, 1901, to Sept. 30, 1902.

Office rent.....	\$600 00	Rental of typewriter and desk.....	\$ 48 00
Janitor service.....	300 00	Extra clerk hire.....	112 50
Toilet supplies.....	25 75	Three trips to Springfield.....	45 00
Gas and fuel.....	97 48	Repairs, janitor's supplies, stove	
Ice and water.....	7 00	repairs, storage, gas fixtures.....	75 44
Western Union Telegraph.....	12 00		
Telephone and toll service.....	125 85	Total.....	\$1,449 02

Annual Report of the North Side Illinois Free Employment Office, to the State Bureau of Labor Statistics, for the Year ended Oct. 1, 1902—Applications for Employment and Help, Positions Secured and the Number Remaining Unfilled.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of positions secured.	Number unfilled.	Number filed.	Number unfilled.
Males.						
1	Bakers	3	.....	3	3	3
2	Barnmen	124	110	14	146	36
3	Bartenders	4	3	1	4	1
4	Blacksmiths	65	57	8	87	30
5	Blacksmith helpers	2	2	.....	4	2
6	Boilermakers	9	8	1	14	6
7	Bookbinders	1	.....	1	.....	.....
8	Bookkeepers	11	1	10	1	.....
9	Boys—bell, cash, delivery, errand, office...	131	108	23	271	163
10	Brakemen	1	1	.....	3	.....
11	Butchers	3	1	2	1	2
12	Cabinetmakers	2	.....	2	20	20
13	Canvassers	9	9	.....	34	25
14	Carpenters	71	61	10	85	24
15	Carriage and wagon washers.....	5	5	.....	7	2
16	Chefs.....	.....	.....	.....	1	1
17	Clerks—bill, drug, dry goods, grocery, hotel, shipping, not stated.....	90	42	48	48	6
18	Coachmen.....	31	20	11	27	7
19	Collectors.....	7	.....	7	.....	.....
20	Cooks	60	38	22	63	25
21	Coopers	1	.....	1	1	1
22	Conductors	1	1	.....	1	.....
23	Dishwashers.....	35	27	8	40	13
24	Drivers.....	167	145	22	209	64
25	Electricians.....	2	.....	2	.....	.....
26	Elevatormen.....	13	4	9	7	3
27	Engineers.....	17	3	14	3	.....
28	Factory hands	518	464	54	663	199
29	Farm hands.....	100	71	29	132	61
30	Firemen	25	8	17	12	4
31	Florists.....	3	1	2	2	1
32	Gardeners.....	2	2	.....	5	3
33	Housemen	189	152	37	207	55
34	Janitors.....	82	54	28	72	18
35	Kitchenwork.....	28	24	4	34	10
36	Laborers	2,903	2,787	116	4,327	1,540
37	Lathe hands	2	1	1	6	5
38	Laundrymen.....	1	.....	1	1	1
39	Machinists.....	96	73	23	105	32
40	Metal workers	1	1	.....	1	.....
41	Motormen.....	4	2	2	2	.....
42	Nurses	2	.....	2	1	1
43	Office help	11	.....	11	.....	.....

North Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfilled.	Number filed.	Number unfilled.
44	Oilers	2	.....	2	.....	.....
45	Packers	17	7	10	60	63
46	Painters	18	12	6	18	6
47	Patternmakers	1	.....	1	11	11
48	Plumbers	4	1	3	2	1
49	Polishers, not stated	6	6	.....	6	.....
50	Porters	107	73	34	99	26
51	Printers	3	1	2	1	.....
52	Salesmen	1	.....	1	.....	.....
53	Solicitors	6	.....	6	15	15
54	Steamfitters	1	1	.....	1	.....
55	Stenographers	22	5	17	10	5
56	Stockmen	14	12	2	20	8
57	Stovemmen	1	.....	1	2	2
58	Tailors	1	1	.....	2	1
59	Teachers, not stated	1	.....	1	.....	.....
60	Teamsters	547	531	16	662	131
61	Tinsmiths .....	.....	.....	.....	3	3
62	Waiters	28	15	13	24	9
63	Watchmen	26	7	19	9	2
64	Window dressers	1	.....	1	.....	.....
65	Window washers	9	9	.....	24	11
66	Wood workers	2	2	.....	2	.....
67	Miscellaneous, not classified	15	14	1	22	8
Total		5,666	4,983	683	7,650	2,667
Positions secured, previous applications .....		.....	510	510	.....	510
Total for year		5,666	5,493	173	7,650	2,157
Total previous 2 years and 9 weeks		11,479	7,682	3,797	10,927	3,245
Grand total, 3 years and 9 weeks		17,145	13,175	3,970	18,577	5,402
Females.						
1	Bookkeepers	3	2	1	3	1
2	Cashiers	5	1	4	2	1
3	Clerks	13	3	10	7	4
4	Chambermaids	259	221	38	286	65
5	Companions	2	2	.....	2	.....
6	Cooks	429	398	31	526	128
7	Dayworkers	270	255	15	269	14
8	Demonstrators .....	.....	.....	.....	25	25
9	Dining room help	148	135	13	225	90
10	Dishwashers	241	224	17	259	35
11	Factory work	146	119	27	331	212
12	General housework	1,708	1,620	88	1,996	376
13	Housekeepers	78	41	37	68	27
14	Janitresses	2	2	.....	3	1
15	Kitchen help	293	261	32	319	58
16	Laundresses	72	63	9	114	51
17	Nurses	79	57	22	87	30
18	Office work	30	14	16	25	11
19	Pantry work	10	8	2	15	7
20	Reception service	1	.....	1	.....	.....
21	Saleswomen	3	.....	3	.....	.....
22	Scrubwomen	78	69	9	96	27
23	Seamstresses	41	23	18	95	72
24	Second work	159	125	33	179	54
25	Solicitors	1	.....	1	1	1

North Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfiled.	Number filed.	Number unfiled.
26	Stenographers	23	7	16	12	5
27	Waitresses	125	106	22	197	91
28	Wrappers	2	1	1	5	4
29	Miscellaneous, occupation not stated.....	3	3	.....	5	2
	Total.....	4,226	3,760	466	5,153	1,393
	Positions secured, previous applications..	.....	357	357	.....	357
	Total for year.....	4,226	4,117	109	5,153	1,036
	Total previous 2 years and 9 weeks	8,540	8,358	182	10,276	1,918
	Grand total, 3 years and 9 weeks	12,766	12,475	291	15,429	2,954

REPORT OF THE CHICAGO SOUTH SIDE ILLINOIS FREE EMPLOYMENT OFFICE, 1902. 429 WABASH AVENUE.

(GEO. W. GEARY, Superintendent, Chicago.)

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Illinois.*

SIR—Complying with section six of the act of the General Assembly creating the Illinois Free Employment Offices, I herewith submit the fourth annual report of the business of the South Side office for the year ending September 30, 1902, together with the expense of maintaining the office for the same period.

A careful perusal of this report will show that the volume of business has increased almost two-fold from the previous year. A great many reasons may be advanced for the large increase in the business of this office, but the principal reason is that the employers of labor, and the persons seeking employment, have been fully convinced that their wants can be supplied by making application to these offices.

There is no necessity of saying anything about the great good that comes from any medium that will bring together the person that is seeking honest employment, and the person who is desirous of employing competent and reliable help to assist in conducting his business. Especially is this true when this is accomplished without cost to either party.

Since the publication of our last report the Supreme Court has decided the constitutionality of the act creating these offices, and the Attorney General of the State, in conjunction with the State's Attorney of this county, has vigorously prosecuted all violators of the law, which has had the effect of compelling many of the private agencies to cease from doing business, while those who have complied with the law and have taken out licenses have been more reasonable in their charges to persons seeking employment, and in a general way it has been of great benefit to the public.

The daily papers, and in fact the press generally, still manifest a very friendly feeling towards these offices, and to them is due great credit for the success these offices have attained.

Very respectfully yours,

GEO. W. GEARY,
Superintendent.

Statement of the expenses of the South Side Illinois Free Employment Office, from Oct. 1, 1901, to Sept. 30, 1902.

Rent of office.....	\$ 960 00	Repairs, labor and signs.....	79 65
Janitor's salary.....	360 00	Rent of clock.....	9 00
Clerk hire.....	1,560 00	Supplies for janitor.....	16 10
Expenses superintendent's trips to Springfield.....	62 00	Distributing annual reports.....	22 00
Furniture for office.....	349 35	Insurance on office fixtures.....	33 50
Telephone service and toll.....	192 85	Directories, city and business, etc.	91 63
Edison Co., light and power.....	73 45	Postage.....	300 00
Telegraph service.....	14 59	Advertising.....	400 00
Toilet Supply Co., service.....	29 25	Total.....	\$4,770 67
Consumers Ice Co.....	18 30		

Annual Report of the South Side Illinois Free Employment Office to the State Bureau of Labor Statistics for the year ended Oct. 1, 1902—Applications for Employment and Help, Positions Secured and the Number Remaining Unfilled.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured	Number unfilled.	Number filed.	Number unfilled.
Males.						
1	Agents.....	9	7	2	7	.....
2	Artists.....	3	2	1	2	.....
3	Bakers.....	27	25	2	25	.....
4	Barbers.....	2	1	1	1	.....
5	Barnmen.....	226	212	14	217	5
6	Bartenders.....	28	25	3	25	.....
7	Bill posters.....	3	3	.....	3	.....
8	Blacksmiths.....	41	38	3	43	5
9	Bookkeepers.....	30	12	18	12	.....
10	Bootblacks.....	4	4	.....	4	.....
11	Boxmakers.....	28	25	3	25	.....
12	Boys.....	202	201	1	204	3
13	Boys, bell.....	42	38	4	40	2
14	Boys, cash.....	61	56	5	58	2
15	Boys, delivery.....	184	176	8	190	14
16	Boys, errand.....	68	58	10	81	23
17	Boys, office.....	142	141	1	161	20
18	Bricklayers.....	4	4	.....	4	.....
19	Butchers.....	24	21	3	21	.....
20	Butlers.....	10	9	1	9	.....
21	Cabinet makers.....	2	2	.....	2	.....
22	Calsominers.....	6	6	.....	6	.....
23	Canvassers.....	1	1	.....	1	.....
24	Carpet layers.....	7	7	.....	7	.....
25	Carpenters.....	172	159	13	161	5
26	Cashiers.....	2	2	.....	2	.....
27	Caterers.....	5	5	.....	5	.....
28	Cleaners, harness.....	5	5	.....	6	1
29	Cleaner, wagons.....	9	9	.....	9	.....

South Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number posi- tions secured.	Number unfiled.	Number filed.	Number unfiled.
30	Clerks, drug.....	17	4	13	4	.....
31	Clerks, dry goods.....	5	2	3	2	.....
32	Clerks, grocery.....	8	6	2	6	.....
33	Clerks, office.....	15	4	11	4	.....
34	Clerks, shipping.....	20	14	6	14	.....
35	Clerks, general.....	155	53	102	53	.....
36	Coachmen.....	73	61	12	61	.....
37	Collectors.....	22	12	10	12	.....
38	Cooks.....	364	329	35	332	3
39	Coopers.....	2	2	.....	2	.....
40	Demonstrators.....	13	13	.....	13	.....
41	Dishwashers.....	544	525	19	533	8
42	Electricians.....	23	21	2	21	.....
43	Elevator men.....	70	61	9	61	.....
44	Engineers.....	93	63	30	64	1
45	Factory hands.....	150	145	5	150	5
46	Farm hands.....	658	654	4	753	129
47	Firemen.....	122	102	20	107	5
48	Foremen.....	1	1	.....	1	.....
49	Gardeners.....	45	40	5	42	2
50	Glaziers.....	1	1	.....	1	.....
51	Harness makers.....	11	11	.....	11	.....
52	Horseshoers.....	1	1	.....	1	.....
53	Hostlers.....	100	95	5	99	4
54	Housemen.....	674	624	50	633	9
55	Iron workers.....	12	12	.....	13	1
56	Janitors.....	277	246	31	246	.....
57	Kitchenwork.....	120	111	9	114	3
58	Laborers.....	3,146	3,025	121	3,469	444
59	Laborers, railroad.....	1,481	1,451	30	1,653	202
60	Laundrymen.....	13	13	.....	14	1
61	Machine hands.....	43	40	3	40	.....
62	Machinists.....	111	99	12	112	13
63	Millwrights.....	4	4	.....	6	2
64	Models.....	7	7	.....	7	.....
65	Molders.....	26	24	2	32	8
66	Nurses.....	12	11	1	11	.....
67	Packers.....	79	71	8	71	.....
68	Painters.....	57	44	13	45	1
69	Paper hangers.....	5	5	.....	5	.....
70	Pattern makers.....	4	4	.....	4	.....
71	Photographers.....	1	.....	1	.....	.....
72	Plumbers.....	1	1	.....	1	.....
73	Porters.....	772	710	62	722	12
74	Pressmen.....	8	8	.....	8	.....
75	Printers.....	6	3	3	3	.....
76	Salesmen.....	48	38	10	38	.....
77	Shoemakers.....	4	4	.....	4	.....
78	Solicitors.....	29	27	2	27	.....
79	Steam fitters.....	11	8	3	8	.....
80	Stenographers.....	12	5	7	5	.....
81	Stewards.....	1	1	.....	1	.....
82	Stock men.....	137	133	4	134	1
83	Stove mounters.....	2	.....	2	.....	.....
84	Tailors.....	3	2	1	2	.....
85	Teamsters.....	562	532	30	545	13
86	Telegraphers.....	4	1	3	1	.....
87	Tinsmiths.....	17	15	2	15	.....
88	Upholsterers.....	4	4	.....	4	.....
89	Valet.....	1	1	.....	1	.....
90	Wagon makers.....	2	2	.....	2	.....
91	Waiters.....	470	449	21	469	20
92	Watchmen.....	62	22	40	24	2

South Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfilled.	Number filed.	Number unfilled.
93	Weavers.....	2	2	.....	2	.....
94	Window washers.....	283	268	15	278	10
95	Wood choppers.....	5	5	.....	5	.....
96	Wood workers.....	13	10	3	10	.....
97	Yardmen.....	47	45	2	45	.....
Total.....		12,438	11,561	877	12,540	979
Positions secured, previous applications..		.....	200	200	.....	200
Total for year.....		12,438	11,761	677	12,540	779
Total, previous 2 years and 9 weeks.....		22,784	16,642	6,142	18,599	1,957
Grand total, 3 years and 9 weeks.....		35,222	28,403	6,819	31,139	2,736
Females.						
1	Artists.....	1	.....	1	.....	.....
2	Agents.....	.....	.....	.....	10	10
3	Bookkeepers.....	8	5	3	6	1
4	Bindery girls.....	1	1	.....	1	.....
5	Cashiers.....	21	11	10	12	1
6	Clerks.....	39	25	14	25	.....
7	Caterers.....	1	1	.....	1	.....
8	Chambermaids.....	504	497	7	559	62
9	Companions.....	7	2	5	2	.....
10	Collectors.....	4	1	3	2	1
11	Cooks.....	521	520	1	668	148
12	Copyists.....	2	1	1	1	.....
13	Dayworkers.....	143	137	6	139	2
14	Demonstrators.....	2	2	.....	7	5
15	Dishwashers.....	580	571	9	642	71
16	Factory work.....	158	153	5	268	115
17	General housework.....	1,825	1,811	14	2,558	747
18	Hall girls.....	4	4	.....	6	2
19	Housekeepers.....	131	113	18	135	22
20	Housework.....	4	4	.....	6	2
21	Janitresses.....	11	8	3	9	1
22	Kitchen help.....	458	455	3	530	75
23	Lady's maid.....	1	1	.....	1	.....
24	Laundresses.....	197	193	4	247	54
25	Linen room girls.....	1	1	.....	1	.....
26	Models.....	1	1	.....	3	2
27	Nurses.....	115	102	13	128	26
28	Office work.....	56	19	37	22	3
29	Pantry work.....	97	96	1	105	9
30	Printers.....	1	.....	1	.....	.....
31	Reception ladies.....	11	.....	11	.....	.....
32	Saleswomen.....	4	1	3	7	6
33	Scrubwomen.....	340	332	8	377	45
34	Seamstresses.....	33	25	8	34	9
35	Second work.....	147	146	1	188	42
36	Solicitors.....	3	3	.....	7	4
37	Stenographers.....	53	10	43	10	.....
38	Teachers.....	2	.....	2	.....	.....
39	Waitresses.....	531	521	10	771	250
Totals.....		6,013	5,768	245	7,481	1,713
Positions secured, previous applications..		.....	23	23	.....	23
Total for year.....		6,013	5,791	222	7,481	1,690
Total previous 2 years and 9 weeks.....		15,314	14,996	318	19,095	4,099
Grand totals, 3 years and 9 weeks.....		21,327	20,787	540	26,576	5,789

REPORT OF THE CHICAGO WEST SIDE ILLINOIS FREE EMPLOY-
MENT OFFICE, 1902. CORNER CANAL AND
RANDOLPH STREETS.

S. P. REVERE, Superintendent, Chicago.

HON. DAVID ROSS, *Secretary Bureau of Labor Statistics, Springfield, Illinois:*

SIR—In compliance with section six of the law establishing the Illinois Free Employment Offices, I herewith submit the fourth annual report of the business transacted in this office, for the year ended September 30, 1902, together with the expense account for the same period.

Since submitting the last annual report we have the satisfaction of knowing that the business of this office has very perceptibly increased, namely, about 40 per cent, certainly a showing which must be gratifying.

A careful comparison of the work of this office with previous years discloses the gratifying fact that the office has had its fair share of the prosperity which is so general throughout the entire country.

The following report will give in detail the work of this office for the time herein stated.

Respectfully submitted,

S. P. REVERE,
Superintendent.

Statement of the Expenses of the West Side Illinois Free Employment Office, from Oct. 1, 1901, to Sept. 30, 1902.

Rent	\$540 00	Insurance	\$ 57 19
Janitor	360 00	Advertising	537 00
Telephone service.....	178 20	Postage.....	68 00
Towel supply	16 50	Miscellaneous.....	95 40
Gas	20 28		
Ice	23 60	Total.....	\$1,916 17

Annual Report of the West Side Illinois Free Employment Office, to the State Bureau of Labor Statistics, for the year ended Oct. 1, 1902—Applications for Employment and Help, Positions Secured and the Number Remaining Unfilled.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number posi- tions secured.	Number unfilled.	Number filed.	Number unfilled.
Males.						
1	Apprentices.....	47	3	44	4	1
2	Artists.....	1		1		
3	Bakers.....	16		16		
4	Baker helpers.....	2		2	1	1
5	Barnmen.....	10	6	4	6	
6	Bartenders.....	17	5	12	7	2
7	Bench hands.....	11	5	6	5	
8	Blacksmiths.....	10	4	6	7	3
9	Blacksmith helpers.....	35	22	13	23	6
10	Boilermakers.....	2		2		
11	Bookbinders.....	3		3		
12	Bookkeepers.....	19	1	18	1	
13	Bottle washers.....	1	1		2	1
14	Boxmakers.....	8	1	7	1	
15	Boys.....	17	12	5	33	21
16	Boys, bell.....	2		2		
17	Boys, cash.....	2		2		
18	Boys, delivery.....	10	4	6	7	3
19	Boys, errand.....	22	11	11	21	10
20	Boys, office.....	64	6	58	17	11
21	Brakemen.....	2		2		
22	Brass finishers.....	2		2		
23	Bricklayers.....	3	3		3	
24	Bridge builders.....	1		1		
25	Brush finishers.....	1	1		1	
26	Butchers.....	14	5	9	9	4
27	Butlers.....	1		1		
28	Cabinet makers.....	3		3	2	2
29	Canvassers.....	2	1	1	3	2
30	Carpenters.....	48	26	22	41	15
31	Carriage and wagon washers.....	23	17	6	23	6
32	Carriage finishers.....	1		1		
33	Checkers.....	3		3		
34	Circular distributors.....	1	1		1	1
35	Cleaners, harness.....	6	3	3	10	7
36	Clerks, bill.....	7	1	6	2	1
37	Clerks, grocery.....	24	6	18	7	1
38	Clerks, hotel.....	5		5		
39	Clerks, shipping.....	41		41	1	1
40	Clerks, not stated.....	3	3		3	
41	Coachmen.....	7		7	2	2
42	Coal passers.....	5	5		5	
43	Collectors.....	19		19		
44	Cooks.....	41	12	29	17	5
45	Coopers.....	6	3	3	5	2
46	Conductors.....	4		4		
47	Coremakers.....	2		2		
48	Dishwashers.....	25	17	8	21	4
49	Draughtsman.....	1		1		
50	Drill pressmen.....	30	4	26	6	2
51	Drivers.....	133	51	82	62	11
52	Electricians.....	30		30	2	2
53	Electrician helpers.....	3		3		
54	Elevatormen.....	50	4	46	7	3
55	Engineers.....	58	12	46	18	6
56	Factory hands.....	515	243	272	323	85
57	Farmers.....	1		1		
58	Farm hands.....	255	162	93	210	48
59	Firemen.....	103	23	80	26	3
60	Foremen.....	3		3		
61	Foundrymen.....	2		2		
62	Furnace tenders.....	3		3		
63	Gardeners.....	5	1	4	4	3

West Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		APPLICATIONS FOR HELP.		
		Number filed.	Number posi- tions secured.	Number unfiled.	Number filed.	Number unfiled.
64	Harness makers	1	.....	1	.....	.....
65	Horseshoers .....	.....	.....	.....	1	1
66	Hostlers	50	33	17	53	20
67	Housemen	86	25	61	39	14
68	Ironworkers	13	3	10	4	1
69	Janitors	76	30	46	37	7
70	Kitchenwork	3	1	2	1	.....
71	Laborers	3,368	3,092	286	3,460	378
72	Laborers, railroad	4	.....	4	.....	.....
73	Lathe hands	21	2	19	4	2
74	Lathers	1	.....	1	.....	.....
75	Laundrymen	4	1	3	.....	.....
76	Machine hands	80	12	68	18	6
77	Machinists	136	48	88	69	21
78	Machinist helpers	62	17	45	36	19
79	Millers	1	.....	1	.....	.....
80	Millwrights	5	4	1	7	3
81	Molders	9	4	5	45	41
82	Motormen	2	1	1	1	.....
83	Nurses	2	.....	2	.....	.....
84	Office help	4	.....	4	.....	.....
85	Oilers	8	1	7	1	.....
86	Packers	41	7	34	7	.....
87	Painters	21	4	17	5	1
88	Pantrymen	2	.....	2	.....	.....
89	Patternmakers	3	1	2	2	1
90	Photographers	2	.....	2	.....	.....
91	Piano tuners	1	.....	1	.....	.....
92	Plumbers' helpers	2	.....	2	1	1
93	Polishers, metal	12	10	2	14	4
94	Polishers, not stated	6	2	4	4	2
95	Porters	148	97	51	116	19
96	Pressers	4	1	3	1	.....
97	Pressmen	1	.....	1	.....	.....
98	Printers	7	2	5	2	.....
99	Punch press hands	32	.....	32	.....	.....
100	Roofers	1	.....	1	.....	.....
101	Salesmen	41	2	39	3	1
102	Sawyers	5	.....	5	1	1
103	Shoemakers	5	.....	5	.....	.....
104	Solicitors .....	.....	.....	.....	3	3
105	Steamfitters	9	.....	9	1	1
106	Stenographers	6	1	5	3	2
107	Stock farm hands	1	.....	1	.....	.....
108	Stock keepers	5	1	4	1	.....
109	Stonecutters	2	.....	2	.....	.....
110	Tailors	4	.....	4	5	5
111	Teamsters	201	109	92	122	13
112	Timekeepers	8	.....	8	.....	.....
113	Tinsmiths	6	6	.....	9	3
114	Toolmakers	3	.....	3	.....	.....
115	Truckmen	11	4	7	4	.....
116	Vise hands	3	.....	3	.....	.....
117	Waiters	21	8	13	14	6
118	Watchmen	65	6	59	9	3
119	Whitewashers	1	1	.....	1	.....
120	Wholesale men	34	.....	34	.....	.....
121	Window washers	58	44	14	64	20
122	Wood finishers	3	.....	3	1	1
123	Wood workers	5	.....	5	2	2
124	Yardmen	2	1	1	2	1
125	Miscellaneous, not classified	321	112	209	214	102
Total		6,830	4,367	2,463	5,347	980
Previous applications .....		.....	551	551	.....	551
Grand total		6,830	4,918	1,912	5,347	429

West Side Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number posi- tions se- cured.	Number unfiled.	Number filed.	Number unfiled.
Females.						
1	Berry pickers.....	6	6	.....	12	6
2	Bookkeepers.....	3	.....	3	.....	.....
3	Bottle labelers.....	.....	.....	.....	2	2
4	Canvassers.....	1	.....	1	12	12
5	Cashiers.....	9	.....	9	.....	.....
6	Clerks.....	18	3	15	3	.....
7	Chambermaids.....	154	141	13	155	14
8	Companions.....	1	.....	1	1	1
9	Cooks and laundresses.....	1	.....	.....	1	.....
10	Cooks.....	184	125	59	169	44
11	Dayworkers.....	147	68	79	71	3
12	Dining room help.....	91	91	.....	121	30
13	Dishwashers.....	110	107	3	118	11
14	Domestics.....	552	513	39	617	104
15	Factory work.....	358	341	17	665	324
16	Housekeepers.....	64	28	36	44	16
17	Janitresses.....	3	2	1	2	.....
18	Kitchen help.....	125	125	.....	148	23
19	Laundresses.....	98	91	7	106	16
20	Milliners.....	1	.....	.....	.....	.....
21	Nurses.....	44	35	9	41	6
22	Office work.....	30	7	23	8	1
23	Pantry work.....	25	25	.....	32	7
24	Paint cleaners.....	2	2	.....	2	.....
25	Reception service.....	2	.....	2	.....	.....
26	Scrubwomen.....	137	136	1	159	23
27	Seamstresses.....	32	31	1	44	13
28	Second work.....	16	13	3	25	12
29	Stenographers.....	28	1	27	1	.....
30	Teachers, music.....	1	.....	1	.....	.....
31	Typewriters.....	3	.....	3	.....	.....
32	Waitresses.....	111	111	.....	144	33
33	Wrappers.....	1	.....	1	.....	.....
34	Miscellaneous, occupation not stated.....	3	.....	3	.....	.....
Total.....		2,358	2,003	355	2,704	701
Previous applications.....		.....	25	25	.....	25
Grand total.....		2,358	2,028	380	2,704	676

REPORT OF THE PEORIA, ILLINOIS, FREE EMPLOYMENT OFFICE ,
1902.(EDWARD E. WALKER, Superintendent, Masonic Temple, Peoria.)

HON. DAVID ROSS, *Secretary of Bureau of Labor Statistics, Springfield, Ill.*

SIR—Complying with the requirements of section 6 of an act passed by the General Assembly of Illinois creating the Illinois Free Employment Offices, I herewith submit my second annual report for the year ended Oct. 1, 1902.

At the time of submitting the last annual report of this office which covered but a period of three months, the operation of the office was somewhat of an experiment, as to whether or not employment offices in the cities of the State outside of Chicago would be beneficial to the public. After a careful examination of this report, the statement is justified that this matter is beyond the experimental stage, and that employment offices would be beneficial to every city that has a population of 25,000 or over.

Bringing the employer and employé together, as is the object of these offices, saves both parties a great deal of time and expense; and, with proper management, the offices will become such a necessity to the people of the State that they will require of their representatives in the General Assembly an extension of these free employment offices, so that the State will greatly assist in keeping its people employed.

During the past year calls have been received at this office for help from Quincy, Danville, Canton, Galesburg, Decatur, Springfield, Bloomington, Abingdon, Monmouth, Galva, Kewanee, Aurora, Chicago, Pekin, Jacksonville and numerous other cities, towns and villages, and in many instances the office has been heartily commended for the good class of help it has been sending out.

It is found that the appropriation for advertising is of great benefit in supplying the demands of the office, and it is hoped that an increase for this purpose may be obtained for the next two years.

The report will show that quite a number of farm hands have been supplied to the farmers of this section, which goes to show that the benefits of these offices extend to the country as well as to the city.

Respectfully submitted,

EDWARD E. WALKER,
Superintendent.

*Itemized Expense Account of Illinois Free Employment Office at
Peoria, Illinois—Year ended October 1, 1902.*

Stenographer.....		\$600 00
Postage and express.....		100 60
Advertising.....		419 47
Office expenses—		
Rent.....	\$480 00	
Telephone.....	94 17	
Telegraph.....	20 70	
Towels.....	13 20	
Electric light.....	9 96	
Janitor.....	18 00	
Ice.....	21 00	
Extra clerk hire.....		657 03
Office furniture.....		152 50
Miscellaneous.....		13 76
		169 87
		<hr/> \$2,113 23

*Annual Report of the Peoria, Illinois, Free Employment Office,
to the Bureau of Labor Statistics, for the Year ended October
1, 1902—Applications for Employment and Help, Positions
Secured and the Number Remaining Unfilled.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions secured.	Number unfiled.	Number filed.	Number unfiled.
Males.						
1	Agents.....	1	1	.....	1	.....
2	Apprentices.....	8	2	6	2	.....
3	Bakers.....	37	25	12	26	1
4	Barbers.....	2	1	1	1	.....
5	Barnmen.....	54	50	4	50	.....
6	Bartenders.....	1	.....	1	.....	.....
7	Bench hands.....	23	22	1	22	.....
8	Blacksmiths.....	35	23	12	23	.....
9	Boilermakers' helpers.....	1	.....	1	.....	.....
10	Bookkeepers.....	21	6	15	6	.....
11	Boxmakers.....	7	7	.....	7	.....
12	Boys.....	38	29	9	29	.....
13	Boys—bell.....	24	24	.....	24	.....
14	Boys—delivery.....	104	91	13	93	2
15	Boys—elevator.....	22	18	4	18	.....
16	Boys—errand.....	27	25	2	25	.....
17	Boys—factory.....	105	100	5	115	15
18	Boys—office.....	14	10	4	10	.....
19	Boys—wrapper.....	3	3	.....	3	.....
20	Brakemen.....	1	.....	1	.....	.....
21	Butchers.....	6	2	4	2	.....
22	Cabinet makers.....	9	6	3	8	2
23	Candy makers.....	1	.....	1	.....	.....
24	Canvassers.....	36	35	1	35	.....
25	Carpenters.....	64	38	26	39	1
26	Carriage trimmers.....	2	3	.....	3	.....
27	Cigarmakers.....	1	.....	1	.....	.....
28	Clerks—bill.....	9	.....	9	.....	.....
29	Clerks—drug.....	2	2	.....	2	.....
30	Clerks—dry goods.....	5	1	4	1	.....
31	Clerks—grocery.....	39	6	33	6	.....
32	Clerks—hotel.....	5	2	3	2	.....
33	Clerks—shipping.....	10	3	7	3	.....
34	Clerks—stock.....	1	1	.....	1	.....
35	Clerks and salesmen.....	18	5	13	5	.....
36	Clerks—general.....	4	1	3	1	.....

Peoria Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions secured.	Number unfilled.	Number filed.	Number unfilled.
37	Coachmen	24	10	14	10	.....
38	Coal miners	20	20	.....	24	4
39	Collectors	20	5	15	5	.....
40	Cooks	112	84	28	85	1
41	Conductors	4	3	1	3	.....
42	Dairymen	8	7	1	7	.....
43	Dishwashers	73	73	.....	77	4
44	Drill pressmen	7	2	5	2	.....
45	Drivers	41	28	13	29	1
46	Electricians	2	1	1	1	.....
47	Engineers	36	5	31	5	.....
48	Factory hands	182	145	37	150	5
49	Farm hands	158	118	40	120	2
50	Firemen	19	10	9	10	.....
51	Florists	3	3	.....	3	.....
52	Gardeners	6	6	.....	6	.....
53	Harness makers	3	2	1	2	.....
54	Hostlers	21	10	11	10	.....
55	Housemen	24	19	5	19	.....
56	Janitors	53	32	21	32	.....
57	Kitchen work	47	43	4	43	.....
58	Laborers	2,664	2,612	52	2,713	101
59	Laborers, railroad	269	268	1	268	20
60	Laundrymen	2	.....	2	.....	.....
61	Machinists	52	26	26	26	.....
62	Meat cutters and slaughterers	1	2	.....	2	.....
63	Mill hands	6	5	1	5	.....
64	Millwrights	3	1	2	1	.....
65	Molders	21	12	9	19	7
66	Nurses	1	2	.....	2	.....
67	Office help	40	6	34	6	.....
68	Packers	3	3	.....	3	.....
69	Painters	26	17	9	18	1
70	Pan washers	8	8	.....	8	.....
71	Pattern makers	2	2	.....	2	.....
72	Pharmacists	1	.....	1	.....	.....
73	Plow fitters	1	1	.....	1	.....
74	Plumbers	2	.....	2	.....	.....
75	Polishers, metal	8	6	.....	6	.....
76	Porters	57	37	20	38	1
77	Potters	11	11	.....	15	4
78	Press feeders	4	.....	.....	.....	.....
79	Printers	1	1	3	1	.....
80	Salesmen	58	36	22	41	5
81	Shovelers, steam	3	3	.....	3	.....
82	Solicitors	45	40	5	56	16
83	Steam fitters	8	5	3	6	1
84	Stenographers	9	5	4	5	.....
85	Stone masons	5	3	2	5	2
86	Stovemmen	3	3	.....	3	.....
87	Tailors	1	1	.....	1	.....
88	Teamsters	155	116	39	134	18
89	Tinsmiths	10	7	3	7	.....
90	Tool makers	1	.....	1	.....	.....
91	Truckmen	9	9	.....	9	.....
92	Upholsterers	3	2	1	2	.....
93	Wagon makers	1	.....	1	.....	.....
94	Waiters	43	29	14	31	2
95	Watchmen	25	1	24	1	.....
96	Wood workers	17	10	7	10	.....
97	Yardmen	46	37	9	38	1
98	Miscellaneous	3	1	2	1	.....
Totals		5,223	4,488	735	4,705	217

Peoria Office—Concluded.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EM- PLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number of posi- tions se- cured.	Number unfiled.	Number filed.	Number unfiled.
	POSITIONS SECURED, APPLICATIONS FILED THE PREVIOUS YEAR.					
1	Hostler .....	.....	1	1	.....	1
	Totals .....	.....	1	1	.....	1
	Grand totals for year ended Oct. 1, 1902....	5,223	4,489	734	4,705	216
	Females.					
1	Apprentices.....	.....	.....	.....	2	2
2	Bookkeepers.....	22	8	14	9	1
3	Canvassers.....	15	14	1	29	15
4	Clerks.....	8	3	5	3	.....
5	Chambermaids.....	53	33	20	33	.....
6	Companions.....	4	2	2	2	.....
7	Cooks.....	108	93	15	127	34
8	Collectors.....	9	4	5	4	.....
9	Dayworkers.....	77	21	56	27	6
10	Demonstrators.....	5	2	3	2	.....
11	Diningroom help.....	107	84	23	121	37
12	Dishwashers.....	104	69	35	77	8
13	Domestics.....	21	19	2	19	.....
14	Factory work.....	150	84	66	97	13
15	General housework.....	881	817	64	979	162
16	Hotel help.....	30	16	14	17	1
17	Housekeepers.....	90	43	47	55	12
18	Janitresses.....	14	4	10	4	.....
19	Kitchen help.....	50	47	3	53	6
20	Laundresses.....	31	31	.....	40	9
21	Nurse girls.....	51	24	27	25	1
22	Nurses.....	11	6	5	6	.....
23	Office work.....	41	4	37	4	.....
24	Pantry work.....	3	1	2	1	.....
25	Printers.....	1	.....	1	.....	.....
26	Saleswomen.....	37	11	26	14	3
27	Scrub women.....	6	6	.....	9	3
28	Seamstresses.....	27	15	12	17	2
29	Second work.....	99	73	26	81	8
30	Stenographers.....	51	15	36	18	3
31	Tailoresses.....	2	.....	2	.....	.....
32	Teachers.....	2	.....	2	.....	.....
33	Telephone girls.....	19	19	.....	27	8
34	Vegetable cleaners.....	6	4	2	4	.....
35	Washerwomen.....	11	9	2	11	2
	Totals	2,146	1,581	565	1,917	336
	Positions secured, applications filed previ- ous year.....	.....	3	3	.....	3
	Total for year.....	2,146	1,584	562	1,917	333

FREE EMPLOYMENT OFFICES IN CERTAIN CITIES, AND PRIVATE EMPLOYMENT AGENCIES IN ALL CITIES.

- | | |
|--|---|
| § 1. Creation of offices in certain cities—purpose—name.
§ 2. Officers—how appointed—salaries.
§ 3. Duties of superintendent—registers—special registers not open to inspection.
§ 4. Reports to Bureau of Labor Statistics—circulation of reports.
§ 5. Correspondence with employers of labor—advertising.
§ 6. Annual reports—collection of statistics.
§ 7. No fee to be charged—penalty for accepting fee.
§ 8. "Applicant for employment" and "applicant for help" defined. | § 9. Private agencies to be licensed—license fee—bond—restriction as to name and sign—register—registration fee.
§ 10. Commissioners of Labor to enforce act—prosecution of violations—penalty.
§ 11. Private employment agency defined.
§ 12. Disposition of fees and fines.
§ 13. Printing, blanks, supplies, etc., to be furnished by Secretary of State.
§ 14. Repeal.
§ 15. Emergency. |
|--|---|

AN ACT relating to employment offices and agencies.

SECTION 1. *Be it enacted by the People of the State of Illinois, represented in the General Assembly:* That free employment offices are hereby created as follows: One in each city of not less than fifty thousand population, and three in each city containing a population of one million or over, for the purpose of receiving applications of persons seeking employment, and applications of persons seeking to employ labor. Such offices shall be designated and known as Illinois Free Employment Offices.

§ 2. Within sixty days after this act shall have been in force, the State Board of Commissioners of Labor shall recommend, and the Governor, with the advice and consent of the Senate, shall appoint a superintendent and assistant superintendent and a clerk for each of the offices created by section 1 of this act, who shall devote their entire time to the duties of their respective offices. The assistant superintendent or the clerk shall in each case be a woman. The tenure of such appointment shall be two years, unless sooner removed

for cause. The salary of each superintendent shall be fifteen hundred (1,500) dollars per annum, the salary of such assistant superintendent shall be one thousand two hundred (1,200) dollars per annum. The salary of such clerk shall be one thousand (1,000) dollars per annum, together with proper amounts for defraying the necessary costs of equipping and maintaining the respective offices.

§ 3. The superintendent of each such free employment office shall, within sixty days after appointment, open an office in such locality as shall have been agreed upon between such superintendent and the secretary of the Bureau of Labor Statistics, as being most appropriate for the purpose intended; such office to be provided with a sufficient number of rooms and apartments to enable him to provide, and he shall so provide, a separate room or apartment for the use of women registering for situations or help. Upon the outside of each such office, in position and manner to secure the fullest public attention, shall be placed a sign which shall read in the English language, Illinois Free Employment Office, and the same shall appear either upon the outside windows or upon signs in such other languages as the location of each such office shall render advisable. The superintendent of each such free employment office shall receive and record in books kept for that purposes [purpose], names of all persons applying for employment or help, designating opposite the names and addresses of each applicant, the character of employment or help desired. Separate registers for applicants for employment shall be kept, showing the age, sex, nativity, trade or occupation of each applicant, the cause and duration of non-employment, whether married or single, the number of dependent children, together with such other facts as may be required by the Bureau of Labor Statistics to be used by said bureau: *Provided*, that no special registers shall be open to public inspection at any time, and that such statistical and sociological data as the Bureau of Labor may require shall be held in confidence by said bureau, and so published as not to reveal the identity of any one: *And, provided, further*, that any applicant who shall decline to furnish answers as to the questions contained in special registers shall not thereby forfeit any rights to any employment the office might secure.

§ 4. Each such superintendent shall report on Thursday of each week to the State Bureau of Labor Statistics the number of applications for positions and for help received during the preceding week, and the number of positions secured, also those unfilled applications remaining on the books at the beginning of the week. It shall also show the number and character of the positions secured during the preceding week. Upon receipt of these lists, and not later than Saturday of each week, the secretary of the said Bureau of Labor Statistics shall cause to be printed a sheet showing separately, and in combination, the lists received from all such free employment offices.

§ 5. It shall be the duty of each such superintendent of a free employment office to immediately put himself in communication with the principal manufacturers, merchants and other employers of

labor, and to use all diligence in securing the coöperation of the said employers of labor with the purposes and objects of said employment offices. To this end it shall be competent for such superintendents to advertise in the columns of newspapers, or other medium, for such situations as he has applicants to fill, and he may advertise in a general way for the coöperation of large contractors and employers in such trade journals or special publication as reach such employers, whether such trade or special journals are published within the State of Illinois or not.

§ 6. It shall be the duty of each such superintendent to make report to the State Bureau of Labor Statistics annually, not later than December first of each year, concerning the work of his office for the year ending October first of the same year, together with a statement of the expenses of the same, including the charges of an interpreter when necessary, and such report shall be published by the said Bureau of Labor Statistics annually with its coal report. Each such superintendent shall also perform such other duties in the collection of statistics of labor as the secretary of the Bureau of Labor Statistics may require.

§ 7. No fee or compensation shall be charged or received, directly or indirectly, from persons applying for employment or help through said free employment offices, and any superintendent, assistant superintendent or clerk, who shall accept, directly or indirectly, any fee or compensation from any applicant or from his or her representative, shall be deemed guilty of a misdemeanor, and upon conviction, shall be fined not less than twenty-five nor more than fifty dollars and imprisoned in the county jail not more than thirty days.

§ 8. The term "applicant for employment," as used in this act, shall be construed to mean any person seeking work of any lawful character, and "applicant for help" shall mean any person or persons seeking help in any legitimate enterprise; and nothing in this act shall be construed to limit the meaning of the term work to manual occupation, but it shall include professional service, and all other legitimate service.

§ 9. PRIVATE EMPLOYMENT AGENCIES.] No person, firm or corporation in this State shall open, operate or maintain a private employment agency for hire, or where a fee is charged to either applicant for employment or for help, without first obtaining a license for the same from the State Commissioners of Labor. Such license fee, in cities of fifty thousand (50,000) population and over, shall be fifty dollars (\$50) per annum. In all cities containing less than fifty thousand (50,000) population a uniform fee of twenty-five dollars (\$25) per annum will be required. Every license shall contain a designation of the city, street and number of the building in which the licensed party conducts said employment agency. The license together with a copy of this act, shall be posted in a conspicuous place in each and every employment agency. No agency shall print, publish or paint on any sign, window or insert in any newspaper or publication, a name similar to that of the Illinois Free Employment

Office. The Commissioners of Labor shall require with each applicant for a license a bond in the penal sum of five hundred dollars (\$500), with one or more sureties, to be approved by the said commissioners, and conditioned that the obligator will not violate any of the duties, terms, conditions, provisions or requirements of this act. The said commissioners are authorized to cause an action or actions to be brought on said bond in the name of the People of the State of Illinois for any violation of any of its conditions, and they may also revoke, upon a full hearing, any license, whenever in their judgment, the party licensed shall have violated any of the provisions of this act. It shall be the duty of every licensed agency to keep a register, in which shall be entered the name and address of every applicant. Such licensed agency shall also enter into a register the name and address of every person who shall make application for help or servants; and the name and nature of the employment for which such help shall be wanted. Such register shall, at all reasonable hours, be open to the inspection and examination of the Commissioners of Labor or their agents. Where a registration fee is charged for receiving or filing applications for employment or help, said fee shall in no case exceed the sum of two dollars (\$2), for which a receipt shall be given, in which shall be stated the name of the applicant, the amount of the fee, the date, the name or character of the work or situation to be procured. In case the said applicant shall not obtain a situation or employment through such licensed agency within one month after registration as aforesaid, then said licensed agency shall forthwith repay and return to such applicant, upon demand being made therefor, the full amount of the fee paid or delivered by said applicant to said licensed agency, provided that such demand be made within thirty (30) days after the expiration of the period aforesaid. No agency shall send or cause to be sent any female help or servants to any place of bad repute, house of ill-fame or assignation house, or to any house or place of amusement kept for immoral purposes. No such licensed agency shall publish or cause to be published any false or fraudulent notice or advertisement, or to give any false information, or to make any false promise concerning or relating to work or employment to anyone who shall register for employment, and no licensed agency shall make any false entries in the register to be kept as herein provided. No person, firm or corporation shall conduct the business of any employment office in, or in connection with, any place where intoxicating liquors are sold.

§ 10. It shall be the duty of the Commissioners of Labor, and the secretary thereof, to enforce this act. When informed of any violation, it shall be their duty to institute criminal proceedings for the enforcement of its penalties before any court of competent jurisdiction. Any person convicted of a violation of the provisions of this act shall be guilty of a misdemeanor and shall be fined not less than

fifty dollars (\$50) nor more than one hundred (100) dollars for each offense, or by imprisonment in the county jail for a period not exceeding six (6) months, or both, at the discretion of the court.

§ 11. A private employment agency is defined and interpreted to mean any person, firm or corporation furnishing employment or help or giving information as to where employment or help may be secured, or who shall display any employment sign or bulletin, or through the medium of any card, circular or pamphlet, offering employment or help, shall be deemed an employment agency, and subject to the provisions of this act, whether a fee or commission is charged or not: *Provided*, that charitable organizations are not included.

§ 12. All money or moneys received from fees and fines shall be held by the said Commissioners of Labor, and shall constitute a fund for the purpose of enforcing the provisions of this act; and the said commissioners shall, at the end of each fiscal year, make an account of said fund and pay into the State Treasury whatever balance shall remain after paying the necessary disbursements for the purpose of enforcing the provisions of this act.

§ 13. All printing, blanks, blank books, stationery and such other supplies as may be necessary for the proper conduct of the business of the offices herein created shall be furnished by the Secretary of State upon requisition for the same made by the superintendents of the several offices.

§ 14. All acts and parts of acts in conflict herewith are hereby repealed.

§ 15. Whereas, an emergency exists, therefore this act shall take effect and be in force from and after its passage.

APPROVED May 11, 1903, in force May 11, 1903.





